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AD-A207 714

RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

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REPORT DOCUMENTATION PAGE

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KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = Indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATED - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

**RESEARCH PROPOSAL
QUARTERLY STATUS REPORT**

APRIL 1989

**PREPARED BY:
DEBRA TYRRELL, CHIEF
TECHNICAL DOCUMENTS SECTION
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PART I

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ALFA ENGINEERING, INC.	HEERMANN	PHILIP	D	89-NE-122		GILES
AMTEC ENGINEERING INC	IMLAY	SCOTT	T	89-NA-100		SAKELL
ACCELERATOR TECHNOLOGY CORP.	ARKOWITT	YOUNG IN		89-MP-127		BARKER
ACCULINK CORP	ALYSOBHANI	JALAL		89-AM-298		WAKSMAN
ADVANCED COMPOSITE ENGINEERING, INC.	SUN	C	T	89-NA-167		AMDS
ADVANCED FUEL RESEARCH INC.	SERIO	MICHAEL	A	89-NA-075		TISHKOFF
ADVANCED MATERIALS DESIGN, INC.	KULSHRESTHA	ALOK	K	89-NA-163		HARITOS
ADVANCED OPTICAL SYSTEMS	HARTMAN	R	L	89-NE-113		GILES
ADVANCED PHYSICS APPLICATIONS CO.	DINES	EUGENE	L	89-MP-135		PERRIZO
ADVANCED PROJECTS RESEARCH INC	HUMPHREY	J	W	89-NA-156		TISHKOFF
	PEPPER	DARRELL	W	89-NA-125		HELIN
ADVANCED SCIENCE & COMPUTER INNOVATIONS,	MSU	JANG-YU		89-MP-117		SCHLOSSBER
AEDAR CORPORATION	FARUMPI	JAMES		89-NA-192	A	AMDS
AEROCHEM RESEARCH LABORATORIES INC	GERMAN	CHARLES	H	89-NA-151		TISHKOFF
AERODYNE RESEARCH INC	ANKEN	KURT	D	89-NA-150		TISHKOFF
	PUTNAM	ROGER		89-NE-068		LITTON
	STINESPRING	CHARTER	D	89-NE-075		WITT
AEROMETRICS, INC.	BACHALO	WILLIAM	D	89-NA-145		BIRKAN
				89-NA-152		TISHKOFF
AEROSPACE CORPORATION	BEITING	E	J	89-NA-190	A	TISHKOFF
	SVAGE	JACK	A	89-MP-039		KELLEY
AEROSPACE MEDICAL DIVISION	BURTON	RUSSELL		89-NL-097	A	FREGLY
AEROSPACE MEDICAL RESEARCH LABORATORY	BACHERT	ROBERT	F	89-NL-083	A	DISMUKES
AIR FORCE INSTITUTE OF TECHNOLOGY	PALAZOTTO	ANTHONY	N	89-NA-200	A	AMDS
AIR FORCE WEAPONS LAB	LOPEZ	BURNETTE		89-NA-098	A	BOYCE
		JO ANN		89-NA-097	A	SAKELL
AIREX COMPUTER CORPORATION	BEAL	MARK	A	89-NE-147		GILES
ALABAMA CRYOGENIC ENGINEERING, INC.	HERDRICKS	JOHN	B	89-MP-087		SMITH
ALADAR STOLMAR	STOLMAR	ALADAR		89-NA-144		BIRKAN
ALBION INSTRUMENTS	VAN WAGENEN	RICHARD	A	89-MP-124		KELLEY
ALMATECH	ACCRJAN	ALEXANDER	S	89-NA-126		SAKELL
ALPHA LAB	LEE	WILLIAM	B	89-MP-123		BARKER
AMERICAN MATHEMATICAL SOCIETY	MAXWELL	JAMES	D	89-NL-327	A	NACHMAN
AMERICAN RESEARCH CORP OF VIRGINIA	NIIMURA	MASANOBU	G	89-NL-079		CERVEY
		MASSANOBU	G	89-MP-080		BARKER
	SARRAFZADEH	ADEL		89-NE-073		WITT
	WYGANT	R	W	89-NE-072		WITT
AMERICAN SOCIETY FOR COMPOSITES	SOMI	SOM	R	89-MC-217	A	MATUSZKO
AMERICAN STANCARES TESTING BUREAU, INC.	BYTHOVSKY	VAL		89-NE-130		GILES
		V.		89-NE-136		GILES
	EVIN	GEORGE	L	89-MC-184		BURGGRAF
AMHERST SYSTEMS, INC.	BARDERA	CESAR		89-MH-291		WAKSMAN
AMTECH CORP.	HABS	WILLIAM	H	89-MH-303		WAKSMAN
ANALATOM INC	CABRIER	JEAN-LUC		89-NA-146		BIRKAN
ANALYTICAL SERVICES & MATERIALS INC	SIDDIGUI	SHAHIC		89-NA-095		PCMICHAEL
ANALYTICON CORP.	WAGNER	J.		89-MH-309		BAROUCH
ANAMET LABORATORIES, INC.	AROLD	ROCKY	R	89-NA-159		AMOS
	SUN	C	T	89-NA-171		HARITOS

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STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
AMCO ENGINEERS INC	SCLIMED	THOMAS	J	89-NP-072		SMITH
APPLIED COMPUTATIONAL INTELL.	MAZLACK	LAWRENCE	J	89-NM-222		WAKSMAN
APPLIED INFORMATION SYSTEMS, INC.	BEANETT	CONNIE	H	89-NE-125		GILES
APPLIED MICROHAVE PLASMA CONCEPTS	GUEST	GARETH	E	89-NP-146		BARKER
APPLIED RESEARCH ASSOCIATES INC	DAVISTER	MICHAEL		89-NM-216		NACHMAN
	FRANK	ROBERT	A	89-NP-057		SMITH
	SUES	ROBERT	H	89-NA-158		AMOS
APPLIED SCIENCE, INC.	BRITO	K	K	89-NC-112		ULRICH
	LAKE	MAX	L	89-NC-113		ULRICH
				89-NC-114		ULRICH
ARTECH ENGINEERING SERVICES, INC.	CIPOLLA	RUSSELL	C	89-NA-172		HARITOS
ARTEK INC.	UCY	JERRY	L	89-NM-275		NACHMAN
ARIZONA STATE UNIVERSITY	FERNANDO	H-J-S.		89-NC-205		STOBIE
	KOURIS	DEMITRIS	A	89-NM-457		NACHMAN
	NICOLAENKO	BASIL	S	89-NM-422		NACHMAN
	TSAKALIS	KONSTANTINOS		89-NM-421		NACHMAN
ARMY RESEARCH OFFICE	DECLIGALSKI	TOM		89-NA-105		MELIN
	GUNDERSEN	MARTIN	A	89-NP-154		SMITH
	MAN	DAVID	M	89-NA-137		TISHKOFF
	MINK	JAMES		89-NE-207		WITT
ASTER, INC	DERICKSON	RUSSELL		89-NC-182		STOBIE
ASTEC POWER DIVISION/ASTROSYSTEMS, INC.	MCNEELY	JAMES	B	89-NE-167		WITT
				89-NE-169		WITT
				89-NE-170		WITT
ASTRON RESEARCH & ENGINEERING	DAPM	THOMAS	J	89-NA-089		MCMICHAEL
	MEYDT	RICHARD	P	89-NA-093		MCMICHAEL
ASTROX CORP.	RAGHAVAN	V		89-NA-123		SAKELL
ATHENEX RESEARCH ASSOCIATES	SINGER	STANLEY		89-NA-139		TISHKOFF
ATKINSON-MOLAND & ASSOCIATES INC	ATKINSON	R.H.		89-NA-173	D	HARITOS
ATMOSFERIC AND ENVIRONMENTAL RESEARCH	HOFFMAN	R	N	89-NC-203		STOBIE
	SCHNEIDER	HANS	R	89-NC-105		STOBIE
AUBURN INTERNATIONAL, INC.	CRAGIN	JCHN	J	89-NA-154		TISHKOFF
AUBURN UNIVERSITY	UNLIG	FRANK		89-NM-321		NELSON
				89-NM-374	D	NELSON
AUGUST DESIGN & DEVELOPMENT	FITZGERALD	J VINCENT		89-NA-176		SAKELL
AUSTIN & FAMILY	AUSTIN	ALAN	S	89-NE-131		GILES
				89-NM-293		WAKSMAN
AUTOMATION RESEARCH	WARD	ALLEN	C	89-AP-333		WAKSMAN
AUTOMATION SOFTWARE INNOVATION	TACMAS	MARK	M	89-NP-302		NACHMAN
EDM CORPORATION	KUSHNER	BRIAN	G	89-NC-220		ULRICH
BALL STATE UNIVERSITY	TZENG	CHUN-PUNG		89-NM-389		NACHMAN
BELTRAN INC	SIMO	CONSTANCE		89-NC-103		LLRICH
				89-NC-111		ULRICH
				89-NC-115		ULRICH
				89-NE-071		WITT
BERKELEY APPLIED SCIENCE & ENGR.	GHANIVATI	G	R	89-NA-079	A	HARITOS
	PANAHAN	M		89-NA-089		BOYCE
BETHANY COLLEGE	PURIS	JOHN	T	89-NL-170		PERRY

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
SETHUNE-COOKMAN COLLEGE	COPELAND, PH.C	COPELAND, PH.C	RICHARD	F	89-NM-255	D	NACHMAN
RIOMAGNETIC TECHNOLOGIES, INC	BLACK, JR	BLACK, JR	WILLIAM	C	89-NE-103		WEINSTOCK
BOEING CO	IREGAMI	IREGAMI	POY		89-NM-179	C	CROWLEY
BOEING COMPUTER SERVICES INC	TYLES	TYLES	J.	L	89-NM-345		CROWLEY
					89-NM-346		CROWLEY
BOSTON UNIVERSITY	KOPELL	KOPELL	NANCY		89-NM-379		NACHMAN
BRANDEIS UNIVERSITY	TODD	TODD	JAMES	T	89-NL-163		TANGMEY
BREWER SCIENCE INC	FLAIM	FLAIM	TCNY	D	89-NC-104		ULRICH
BRIGHTMAN & WOMEN'S HOSPITAL	CREISLER	CREISLER	CHARLES	A	89-NL-168		BERRY
BRIGHTMAN YOUNG UNIVERSITY	STIGLING	STIGLING	WYNN	C	89-NM-262		BAROUCH
BRIROSE CORP. OF AMERICA	SCCS	SCCS	J	I	89-NE-065		GILES
BROOKHAVEN NATIONAL LABORATORY	CRBONE	CRBONE	RALPH	J	89-XO-007	A	CAVENDER
	PASCIAK	PASCIAK	JCSEPH	E	89-NM-347		NELSON
BROWN UNIVERSITY	GOTTLIEB	GOTTLIEB	DAVID		89-NM-339		NELSON
	MORSE	MORSE	T.	F	89-NP-037		SCHLOSSER
BRUNEL UNIVERSITY	PERRY	PERRY	CAROLE	C	89-NC-171	A	ULRICH
BUTLER UNIVERSITY	FOSTER	FOSTER	JEFFREY	R	89-NL-069		CERVEY
BYLANDER ASSOCIATES	BYLANDER	BYLANDER	E	G	89-NL-115		BERRY
CEG SYSTEMS & TECH., INC	BUTLER	BUTLER	MARLON	L	89-NM-221		CROWLEY
CSA ENGINEERING, INC.	GIBSON	GIBSON	WARREN	C	89-NM-176		NELSON
CVD EQUIPMENT CORPORATION	CHANDRAN	CHANDRAN	RAVI	G	89-NE-175		WITT
CAELM RESEARCH CORPORATION	LIGOMENIDES	LIGOMENIDES	PANDS	A	89-NE-154		GILES
CALIFORNIA INSTITUTE OF TECHNOLOGY	AHRENS	AHRENS	THOMAS	J	89-NA-182		WU
	MARBLE	MARBLE	FRANK	E	89-NA-206	A	TISHKOFF
	MCKOY	MCKOY	VINCENT		89-NC-160		DAVIS
	ROSHKC	ROSHKC	ANATOL	H	89-NA-180		PMICHAEL
	ZENAIL	ZENAIL	A		89-NC-156		DAVIS
CALIFORNIA STATE UNIVERSITY	VOLPER	VOLPER	DENNIS		89-NE-205		GILES
CALIFORNIA STATE UNIVERSITY, FULLERTON	CLYMER	CLYMER	JOHN		89-NE-245		WAKSMAN
CARNEGIE-MELLON UNIVERSITY	AARONSON	AARONSON	HUBERT	I	89-NE-095	A	ROSENSTEIN
	SEGALL	SEGALL	Z	S	89-NM-352	A	WAKSMAN
	STEIF	STEIF	PAUL	P	89-NA-104		HARITOS
	SICARA	SICARA	KATIA	F	89-NM-361	A	WAKSMAN
CASE AEROSPACE	ABOI	ABOI	F		89-NA-165		AMDS
	ICE	ICE	HIROSHI		89-NA-085		SAKELL
CASE WESTERN RESERVE UNIVERSITY	DETERMAN	DETERMAN	DOUGLAS	K	89-AL-175		TANGNEY
	HELER	HELER	A	H	89-NE-106	A	ROSENSTEIN
	LEANDOWSKI	LEANDOWSKI	JCHN		89-AE-102	A	ROSENSTEIN
	PAC	PAC	YCH-HAN		89-NM-419		NACHMAN
	WYCZNSKI	WYCZNSKI	WJBOB	A	89-NM-441		NACHMAN
CENTRAL STATE UNIVERSITY	WASHINGTON	WASHINGTON	WILLIE	J	89-NL-069		CERVEY
CHARLES EVANS & ASSOC.	BUTRILL, JR	BUTRILL, JR	SIGNEY	E	89-NC-119		WILKES
	HERMAN	HERMAN	MICHAEL	H	89-NE-083	C	WITT
	NENCOM	NENCOM	BRUCE	H	89-NE-092		GILES
CHARLES SYSTEMS CORP	JACOBUS	JACOBUS	CHARLES	J	89-NM-330		WAKSMAN
	MITCHELL	MITCHELL	BRIAN	T	89-NM-313		WAKSMAN
CHEMICAL DYNAMICS CORPORATION	GARRETT	GARRETT	BRUCE		89-NC-123		DAVIS
	MURTHY	MURTHY	C	S	89-NA-078		HARITOS

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
LAST NAME						
CHEN TECH SYSTEMS, INC.	SHAMINTHAN	P	K	89-NE-079		WITT
CITY COLLEGE - CUNY	GOPIKANATH	M. L.		89-AC-124		CAVIS
	BERMAN	JOSEPH	L	89-NC-195		WILKES
	GOODMAN	JACOB	E	89-NE-201		LITTON
	MC	PING-FEI	S	89-NM-242		HOLLAND
	LUBELL	MICHAEL		89-NM-412		NACHMAN
	MALRI	ROBERT		89-NP-071	A	KELLEY
CLARKSON UNIVERSITY	TSILIGIANNIS	CHRISTOS		89-NM-417		NACHMAN
	PKAS	ATHANASSIOS		89-NM-453		NACHMAN
	MATIJEVIC	EGON		89-NM-386		NACHMAN
	VASKA	LAURI		89-NC-216		ULRICH
	CLAUSER	JCHN	F	89-NC-131	D	MATUSZKO
CLAUSER, J.F. & ASSOCIATES	FENWELL	ROBERT	E	89-NP-125		KELLEY
CLEMSON UNIVERSITY	CHARLIE	WAYNE	A	89-NM-414		NACHMAN
COLORADO STATE UNIVERSITY	FAIRBANK, JR.	WILLIAM	M	89-NA-087		BOYCE
	ROBINSON	GARY	Y	89-NP-148		PERRIZO
	SAMPATH	W.	S	89-NE-215		LITTON
	STEVENS	OLANE	E	89-NE-209		WEINSTOCK
COLUMBIA RESEARCH INSTRUMENTS CORP.	LEAL-QUIRCS	ECBERTHO		89-NM-392		NACHMAN
	MARTMAN	SVEN	R	89-NE-149		LITTON
COLUMBIA UNIVERSITY	JSCODD	RICHARD		89-NP-149		KELLEY
	SILVER	RAE		89-NP-054	A	SCHLOSSEER
	TURRO	NICHOLAS	J	89-NL-124		BERRY
COMPRESSION TELECOMMUNICATIONS CORP.	VENKATATAMAN	C.		89-NC-215		MATUSZKO
COMPUSEARCH CORPORATION	AMBROSE	KEVIN	L	89-NE-129		GILES
COMPLSEC, INC	GLOSMITH	DEBORAH	L	89-NE-126		GILES
COMPUTATIONAL MECHANICS COMPANY INC	STEWERS	STEVEN	T	89-NM-289		NACHMAN
	TACZYDLO	W. WOYTEK		89-AA-094		MCMICHAEL
COMPUTATIONAL MECHANICS CORPORATION	MANHARDT	P	D	89-NA-081		HARITOS
COMPUTER AIDEC PLAN & SCHEDULE INC.	NULTY	WILLIAM	G	89-NA-101		SAKELL
COMPUTER HUMANWARE INTERNATIONAL	KERNER	FRANK		89-NM-193	A	HOLLAND
CORNELL UNIVERSITY	CISNE	JCHN	L	89-NM-310		WAKSMAN
	LEIBOVICH	SIDNEY		89-NP-055	D	SCHLOSSEER
	OBER	CHRISTOPHER		89-NA-134	A	SAKELL
COUNTERFORCE INCORPORATED	POLLAK	CHARLES	P	89-NC-199		ULRICH
CRAIG DEVELOPMENT CORP.	MECCA	JCHN		89-NL-153		BERRY
CREARE INC. RESEARCH & DEVELOPMENT INC	CRAIG	DWIGHT	R	89-NA-195		SAKELL
	MARSHALL	JEFFREY	S	89-AC-177		WILKES
	MILLER	MATTHEW	J	89-NA-186		MCMICHAEL
	ROTHE	PAUL	H	89-NM-187		WAKSMAN
COM, INC.	OSTEEN	RICHARD	E	89-NA-077		TISHKOFF
CALHOUN UNIVERSITY	RUSAK	BENJAMIN		89-NP-300		WAKSMAN
CARTMOUTH COLLEGE	LEWAL	DAVID	M	89-NL-119		BERRY
DECISION SCIENCE CONSORTIUM INC	LASKEY	KATHRYN	B	89-NC-125		MATUSZKO
	LEDDO	JCHN		89-NM-197		BAROUCH
	TELCOTT	MARTIN	A	89-NL-089		FREGLY
				89-NL-083		FREGLY

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
DECISION TECHNOLOGY		BAR-KANA	IZHAK		89-NM-316		CROWLEY
		SELINSKY	JCHN		93-NE-132		GILFS
DELTA G. CORP.		HCLZL	ROBERT	A	99-AC-193		HURGGRAF
DEPT OF ENERGY - ALBUQUERQUE OPER OFFICE		HARDKOPF	ROBERT	A	99-NP-150	A	SMITH
DEPT OF ENERGY OFFICE OF ENERGY RESEARCH		GOCOMIN	DAVID		89-AP-052	D	SCHLOSSER
DESIGN, ANALYSIS & SOFTWARE ENG		SALAMA	MERTAR		89-NM-224		NELSON
					89-NM-225		NELSON
DEVICE RESEARCH INSTITUTE		WANG	CHENG	T	89-NM-227	C	NACHMAN
DEVTECH		HCMERSON	ERIK		89-NM-339		NACHMAN
DIGITAL FANTASIES LIMITED		DEAN	JCHN		99-NM-314	A	NACHMAN
DIGITAL SIGNAL CORPORATION		JASLOW	MCWARR		89-AL-081		TANGNEY
CREXEL UNIVERSITY		BRISTOW	WITOLC		89-NC-153		DAVIS
		PCFJVIC	SANDOR		89-NA-117		WU
DUKE UNIVERSITY		HAFF	PETER	K	99-NM-411		NACHMAN
		LOCKHEAD	GREGORY	R	89-NL-155	A	FREGLY
EDA CONSULTANTS		SUNDARAARAJAN	CHELLIAH		89-NA-151		AMOS
EES SYSTEMS LAB		GEVINS	ALAN		89-NL-166		FREGLY
EIC LABORATORIES INC		CARRAEGA	MICHAEL	M	99-NP-092	A	KELLEY
EM APPLICATIONS CO.		WCC	WEE-YONG		89-NP-129		BARKER
EMK TESTING COMPANY INC		ZAKRAYSEK	LOUIS		89-NE-151		LITTON
EASTERN ILLINOIS UNIVERSITY		DEY	SURMIT	K	89-NM-429		NACHMAN
EASTERN SPACE & MISSILE CENTER		KENNEDY	MIKE		89-NP-145		SMITH
EDGEWISE SENSOR PRODUCTS		CARONE	EDWARD	F	89-NP-062	A	SMITH
EIDETICS INTERNATIONAL INC.		NG	T. TERRY		93-NA-069		HELIN
EIGENTEA		MLSIC	WAYNE		89-NM-248		BAROUCH
ELECTRO MAGNETIC APPLICATIONS INC		PERALA	ROONEY	A	89-NM-211		HOLLAND
ELECTRO-OPTIK CORPORATION		CHAN	WILLIAM	S	99-NE-082		WITT
					89-NE-088		WITT
					89-NE-087		WITT
					89-NE-055		GILES
ELECTRONETICS CORPORATION		WANG	MICHAEL	K	89-NE-055		GILES
		GCROY	STEPHEN	R	89-NL-109		CERVENY
			ROBERT	S	89-NL-112		CERVENY
EMCORE CORPORATION		TCMPA	GARY	S	89-NE-176		WITT
EMORY UNIVERSITY		OLIKER	VLADIMIR		89-NM-343		NELSON
		WINDGRAD	EUGENE		99-NL-162		FREGLY
ENERGY COMPRESSION RESEARCH CORP.		ZICKER	QVED S.	F	89-AP-143	A	SCHLOSSER
ENVIRONMENTAL GENETOX, INC.		NEPENZO	JESUS	H	89-NL-110		CERVENY
EPIC SYSTEMS GROUP		SPH	YIN	L	89-AM-306		NACHMAN
ESSEX CORPORATION		KENNEY	ROBERT	S	89-NL-076		TANGNEY
					89-NL-077		TANGNEY
					89-NL-073		CERVENY
					89-NL-086		TANGNEY
					89-NL-090		FREGLY
EUROPEAN OFFICE OF AERO RSCH AND DEVELOP		MCCOUGAL	ROBERT	S	89-NL-087		CERVENY
EUROPEAN OFFICE OF AEROSPACE R&D		DAVIES	JAMES	N	89-NE-103	A	CERVENY
EXCEL TECHNOLOGY INC.		RAC	EURIG		89-NP-122	A	WITT
FAILURE ANALYSIS ASSOCIATES		MILDEBRAND	RAMA		89-NE-161		BARKER
FLAM & RUSSELL INC		ACAIR	B.	P	89-NE-104		WEINSTOCK
			S	T			GILES

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
FLORIDA A&M UNIVERSITY	SOLIMAN	MAGDI	R	89-NL-134		BERRY
FLORICA INTERNATIONAL UNIVERSITY	RISHE	NAPHTALI		89-NM-266		WAKSHAM
FLORIDA STATE UNIVERSITY	PFEFFER	RICHARD	L	89-NM-393		NACHMAN
	STEPHAN	FRIEDRICH	K	89-NL-103		BERRY
FOOD AND DRUG ADMINISTRATION	LANDRY	ROBERT	J	89-NP-103	A	SCHLOSSBER
FOSTER-MILLER INC	BOYCE	JOSEPH		89-NE-069		ROSENSTEIN
	MAGHIGHAT	ROSS		89-NC-098		ULRICH
GCA ASSOCIATION	LUSIGNEA	RICHARD	W	89-NC-099		ULRICH
GALAXY MICROSYSTEMS, INC.	AGARWAL	GYAN	C	99-NL-158		FREGLY
GENERAL ANALYTICS CORPORATION	FOSDICK	ROBERT	E	89-AE-116		GILES
GENERAL DIGITAL INDUSTRIES, INC.	ACOMIAN	G.		89-NM-167		NELSON
GENESIS RESEARCH	STREETER	GORDON	L	89-NM-331		WAKSHAM
GEORGE MASON UNIVERSITY	OWENS	THOMAS		89-NP-121		BARKER
	WEGMAN	SUSHIL	J	89-NM-399		WAKSHAM
	LOPNER	EDWARD		89-NM-390		NACHMAN
GEORGE WASHINGTON UNIVERSITY	MOOR	RAINALD		89-NA-183	A	SAKELL
	THALL	AHMED	K	89-NA-178	A	AMOS
	ATLURI	PETER	F	89-NM-443		NACHMAN
GEORGIA INSTITUTE OF TECH	CATRABONE	S.	N	89-NM-349		CROWLEY
GEORGIA TECH RESEARCH CORPORATION	LANDMAN	RICHARD		89-NL-093		FREGLY
GORDON RESEARCH CONFERENCES INC	AUERBACH	UZI	J	89-NC-166	W	CAVIS
	BAKER	DANIEL		89-NC-129		BURGGRAF
	GUY	THOMAS	H	89-NC-128		MATUSZKO
GRAMBLING STATE UNIVERSITY	SABOUNGI	RICHARD		89-NL-188	W	BERRY
	LEE	MARIE-LOUISE		89-NC-127		WILKES
	SCHATZLE	SHUEN-JI	J	89-NM-247	D	HOLLAND
	BERGER	SHUEN		89-NM-259	D	NACHMAN
PARMCNIC LIGHTWAVES INC.	KRCNAUER	F. J.		89-NC-178		STOBIE
PALYARD UNIVERSITY	PARKINSON	JOSEF	E	89-AE-114		GILES
	SCHULL	RICHARD		89-NL-148		BERRY
HAVERFORD COLLEGE	MALIK	WILLIAM	H	89-NC-147		STOBIE
HIGH TECHNOLOG CORP	GRAY	JONATHAN	R	89-NL-171		BERRY
HORIZONS TECHNOLOGY INC	GILL	MUJEEB	C	89-NA-034	A	MCMICHAEL
HOWARD UNIVERSITY	SPENCER	FREDERIC	L	89-NE-117		GILES
HUGHES RESEARCH LABORATORIES	SANTORU	TEPPER	G	89-NM-229	A	NACHMAN
IBM ALMADEN RESEARCH CENTER	BRUNOLE	MICHAEL		89-NP-053	A	SCHLOSSBER
ICONNEX CORP	JCHAR	JOSEPH	R	89-NP-045		BARKER
ILLINOIS INSTITUTE OF TECHNOLOGY	D'SOUZA	C		89-NE-064		LITTON
	MARVASTI	SANDEEP	F	89-NM-297		WAKSHAM
IMAGERY ASSOCIATES	SCPLANG	ANTHONY		89-NM-450		NACHMAN
INDUSTRIAL QUALITY INC	GAYNOR	FAROKH		89-NM-226	D	WOODRUFF
INNOVATIVE DYNAMICS	HICKMAN	ARTHUR		89-AE-159		WEINSTOCK
INST. OF ELECTRICAL & ELECTRONICS ENGRG	ELIAS (U CENTRAL FL)	EDWIN	S	89-NE-070		WITT
INSTITUTE FOR CIRCADIAN PHYSIOLOGY	MCCRE-EDD	GAIL	A	89-NA-130		MCMICHAEL
INSTITUTE OF PHYSIOLOGY	WITHEY	ELIAS (U CENTRAL FL)	C	89-NP-119	A	SCHLOSSBER
	WITHEY	MARTIN		89-NL-130		PERRY
	WITHEY	E		89-NL-183		FREGLY
	WITHEY	EDWARD	L	89-NP-113		SCHLOSSBER

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
INT'L SOCIETY FOR CHRONOL BIOLOGY		HAYES	DCRA	K	89-NL-106	A	BERRY
INTEGRATED AEROSPACE SCIENCES CORP.		BOFILIOS	DIMITRI		89-NA-164		MARITOS
INTEGRATED APPLIED PHYSICS (IAP), INC.		KIRKMAN	GEORGE		89-AP-111		BARKER
INTEGRATED CRYSTAL SYSTEMS, INC.		MATTES	BRENTON	L	89-NE-089		WITT
INTEGRATED ENGINEERING DESIGN INC		CHEN	EN-SHENG		89-NA-122		WU
INTEGRATED SYSTEMS, INC.		KOSUT	ROBERT		89-NA-083		AMOS
INTEGRITY ELECTRONICS & RESEARCH, INC.		VALONE	THOMAS	L	89-NE-067		GILES
INTELLCOMP INC.		SOPANI	A.	F	89-AP-104		SMITH
INTELLI CORP INC		FILMAN	ROBERT	K	89-NE-140		GILES
INTELLIGENT SYSTEMS INTEGRATION INC.		LU	Z	Y	89-NM-284		WAKSMAN
INVENTEK COMPANY		LEVY	HENRY		89-NA-091		HELIN
ION PHYSICS CORP.		WILDE	H	I	89-NE-112		GILES
IOWA STATE UNIV OF SCIENCE AND TECH		BALNGARTEN	JCSEPH	R	89-NA-143	A	MCMICHAEL
		CORONES	JAMES	P	89-NA-136		AMOS
		HINDMAN	RICHARD	G	89-NM-409		WACHMAN
		PETERS	JUSTIN		89-NA-202		SAKELL
IOWA STATE UNIVERSITY DEPARTMENT OF MATH		ROTHMAYER	ALRIC	P	89-NM-360		WACHMAN
		WESSEL	FRANK	J	89-NM-416		WACHMAN
IRVINE SCIENCE ASSOCIATES					89-NP-077		BARKER
ITASCA CONSULTING GRUUP INC		CUNDALL	PETER	A	89-NP-078		BARKER
		VAROULAKIS	IOANNIS	G	89-NA-174		BOYCE
J. A. WOCLLAW COMPANY		WOCLLAM	JCHN	A	89-NA-096		BOYCE
J. AND D. SCIENTIFIC, INC.		MCCORMICK	LARRY	D	89-NP-097		SCHLCSSEER
JACKSON STATE UNIVERSITY		GLUCIVADE	V	N	89-NP-130	C	PERRIZO
		JOHNSTON	SHAYNE		89-NM-258		WACHMAN
		LIP	DEE	L	89-NM-442	D	WACHMAN
JASON ASSOCIATES CORPORATION		RANA	SUNITA	S	89-NM-256	D	WACHMAN
JET PROPULSION LABORATORY		WONG	SEUNG	K	89-NM-260	D	WACHMAN
JOHNS HOPKINS UNIVERSITY		SRIVASTAVA	SANTOSH	K	89-NE-134	A	GILES
		EBY	RONALD	K	89-AP-034		SMITH
		GREENWALD	RAYMOND	A	89-AC-174	A	ULRICH
JORDAN, APOSTAL, RITTER ASSOCIATES, INC		APCSTAL	MICHAEL	C	89-NC-211		STOBIE
JOSEPH TECHNOLOGY CORPORATION		OLIAER	V.	I	89-NM-286		WACHMAN
JUDITH DAYHOFF & ASSOCIATES, INC.		DAYHOFF	JLCITH	E	89-NM-169		WACHMAN
					89-NE-135		GILES
KG ASSOCIATES		GANESAN	KALYAN		89-AL-108		BERRY
KTECH CORPORATION		GAFFNEY	EDWARC	S	89-NE-137		GILES
					89-NE-155		ROSENSTEIN
KACHINA TECHNOLOGIES, INC.		FISHBINE	BRIAN	H	89-NP-061		SMITH
KANSAS STATE UNIVERSITY		JIANG	HONGXING		89-NP-126		SCHLOSSBER
		RAVN	ALEXANDER	G	89-NE-134	D	WITT
					89-NM-199		BAROUCH
KENT STATE UNIVERSITY		GLASS	DAVID	J	89-NM-360		NELSON
KENTRON INC.		KRCLSKI	KENNETH	L	89-AL-071		BERRY
KESTREL INSTITUTE		GREEN	CORDELL		89-NE-152		LITTON
KEYSTONE APPLIED RESEARCH, INC.		BARKANIC	JCHN	A	89-NM-365		WAKSMAN
KLEIN ASSOCIATES, INC.		KLEIN	GARY	A	89-NE-164		WITT
					89-NM-170		WAKSMAN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
KONSAL RESEARCH ASSOCIATES	AGGARWAL	SHASHI			89-NM-232		NACHMAN
KOPIN CORPORATION	SALERNO	JACK		P	89-NE-168		WITT
KRALL ASSOCIATES	KRALL	NICHOLAS		A	89-NP-120		BARKER
KRESGE HEARING RESEARCH INSTITUTE	PFGINGST	BRYAN		E	89-NL-157		TANGNEY
KUCK & ASSOCIATES, INC.	RAJIC	HRABRI		L	89-NM-329		HOLLAND
	WELLS	DANIEL			89-NM-328		HOLLAND
	BEGEJA	LEE			89-NE-127		GILES
LJ SOFTWARE	LAGUNA RESEARCH LAB	MENDRICUS		G	89-NE-059		GILES
LAWRENCE BERKELEY LABORATORY	LEUNG	KA-NGC			89-NP-152	A	SMITH
LAWSN VIDEOGRAPHIC, INC.	LAISON	RAYMOND		R	89-NM-308		WAKSMAN
LEHIGH UNIVERSITY	MACPHERSON	ALISTAIR		K	89-NM-368		NACHMAN
LEHRER PEARSCA INC	PEARSON	J.		W	89-NP-033		SCHLOSSER
LINCOLN LABORATORY/MIT	LIPPMANN	RICHARD			89-NE-101	A	GILES
	SCILLNER	T.C.L.G.			89-NE-204	A	WITT
LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	MARRADINE	DAVID			89-NC-130		BURGRAF
LOS ALAMOS SCIENTIFIC LAB (DCE)	FWLER	JGHN		C	89-NL-100		BERRY
LOUISIANA STATE UNIVERSITY	EL-AMANY	AMMED			89-NM-341		NELSON
	HO	YEW KAM			89-NP-141		KELLEY
	TAYAL	SWARAJ		S	89-NP-038		KELLEY
	TEPPLE	DOYLE			89-NP-133	D	SCHLOSSER
	VGVIADJIS	GEORGE		Z	89-NA-109	D	HARTOS
M L ENERGIA INC	LAVIO	MOSHE			89-NA-153		TISHKOFF
MAXDEM INC	MARROCCO	MATTHEW			89-NC-097		ULRICH
MEI RESEARCH	TRIMMER	MARK		S	89-NC-102	A	ULRICH
PETA SOFTWARE ENGINEERING	MOGRI	JUZER		S	89-NM-319		WAKSMAN
MAINSTREAM ENGINEERING CORPORATION	THAMES	JOSEPH			89-NM-318		HOLLAND
	BUCKMAN	JAY		A	89-NA-127		SAKELL
					89-NM-194		NELSON
MARINE BIOLOGICAL LABORATORY	HALVORSON	HARLYN		O	89-NL-185		TANGNEY
	STRUMWASSER	FELIX			89-NL-123		BERRY
MARCO MATERIALS INC.	JHA	SUNIL		C	89-NE-156		ROSENSTEIN
PARTINGALE RESEARCH CORPORATION	DALES	ROBERT		L	89-NE-057		GILES
					89-NL-075		TANGNEY
					89-NM-219		WAKSMAN
PASON RESEARCH INSTITUTE	SENDELBACH	LOUIS		E	89-NL-073		CERVENY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	J.DRESSELHAUS	GENE		G	89-XO-009	A	CAVENDER
	DRELA	MARK			89-NA-175	A	HELIN
	GHCNIEM	AMMED		F	89-NA-193	A	TISHKOFF
	HUBER	PETER			89-NM-351	A	BARDOUCH
	KING	ROBERT		W	89-NP-047		SMITH
					89-NP-083	A	SMITH
	LYNCH	HARRY		J	89-NL-121		BERRY
	MURMAN	EARLL		M	89-NA-184	A	SAKELL
	NELSON	KEITNA		A	89-NC-142		MODARCZYK
	SILBEY	ROBERT			89-NC-135		DAVIS
	STEINFELD	JEFFREY		I	89-NC-120		DAVIS
	YANG	T		F	89-NA-106	A	GRKAN
MATERIALS RESEARCH SOCIETY	AKSAY	ILHAN		A	89-NC-207	A	ULRICH

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
NATIONAL BUREAU OF STANDARDS	CAVENAGH		RICHARD	R	89-NC-117		BURGGRAB
	DAVIS		RONALD	W	89-NA-140		TISHKOFF
	SIPU		EPIL		89-NA-203	A	AMOS
	TSANG		WING		89-NA-142	A	BIRKAN
NATIONAL INST. OF STANDARDS & TECHNOLOGY	MASTIE		JOHN	W	89-NE-098		SCHIDLER
	LAWN		BRIAN	R	89-NE-059		SCHIDLER
	SIPU		EMIL		89-NA-110		HARITOS
NATIONAL SCIENCE FOUNDATION	DAGENAIS (U. PD)		MARIO	E	89-MP-032	A	SCHLOSSBER
NAVAL RESEARCH LABORATORY	BUTLER		JAMES		89-MP-050		SCHLOSSBER
					89-MP-081	A	SCHLOSSBER
NETCLOGIC, INC	GREENWOOD		DAN		89-MM-276		CROWLEY
	JOHNSON		JAMES	R	89-NC-180		STOBIE
NEURAL WARE	KLIMASAUSKAS		CASIMIR	C	89-NE-109		GILES
NEW MEXICO INSTITUTE OF MINING AND TECH	INAL		OSMAN	T	89-NE-105	D	ROSENSTEIN
NEW YORK UNIVERSITY	WILLIAMSON		SAMUEL	J	89-NE-092	A	FREGLY
NIELSEN ENGINEERING AND RESEARCH CO	NIXON		DAVID		89-NA-068		HELIN
NORFOLK STATE COLLEGE	KUNG		HOU	L	89-MM-254	D	NACHMAN
	MILLER		GEORGE		89-MP-056		SCHLOSSBER
NORTH CAROLINA ACT STATE UNIVERSITY	KUPAR		ASHOK		89-MM-251	C	NACHMAN
NORTH CAROLINA CENTRAL UNIVERSITY	JONES		C.	R	89-MP-043	A	SCHLOSSBER
	SALAMA		IBRAHIM	A	89-MM-257	D	NACHMAN
NORTH CAROLINA STATE UNIVERSITY	CAMPBELL		STEPHEN	L	89-MM-335		CROWLEY
	FANG		SHU-CHERNG		89-MM-269		GLASSMAN
	QUESENBERY		C.	P	89-MM-218	D	BAROUCH
	ENDERLE		JCHN	D	89-MM-094		TANGNEY
NORTH DAKOTA STATE UNIVERSITY	GORDON		MARK	S	89-NC-137		DAVIS
NORTHEAST SEMICONDUCTOR INC.	WCCO		COLIN	C	89-NE-163		WITT
				E.	89-NE-172		WITT
					89-NE-173		WITT
NORTHEASTERN UNIVERSITY	GIESE		ROGER	W	89-NE-105		CERVENY
	WEISING		CAROLYN	D	89-MM-237	C	BAROUCH
NORTHERN ILLINOIS UNIVERSITY	BLOOM		FREDERICK		89-MM-384		NACHMAN
	DATTA		BISWA	N	89-MM-292		CROWLEY
					89-MM-426		NACHMAN
NORTHWEST RESEARCH ASSOCIATES, INC.	DELISI		DCNALC	P	89-NC-100		STOBIE
					89-NC-219		STOBIE
NORTHWESTERN UNIVERSITY	MARKS		TOBIN	J	89-NC-149		DAVIS
	MCKOON		GAIL		89-NE-206	A	FREGLY
	OLSON		G.	B	89-NE-206		ROSENSTEIN
	RATNER		MARK	A	89-NC-150		DAVIS
	RCLTTENBERG		ARYEH		89-NE-187		BERRY
	SCHANK		RCGER	C	89-MM-363	A	WAKSMAN
	SCHMAJUK		NESTOR		89-MM-084		BERRY
	SHRIVER		DUMARC	F	89-NC-209		WILKES
	TORKELSON		JCHN	M	89-NC-154		DAVIS
	TUREK		FRED	W	89-MM-143		BERRY
	CRARY		BRUCE		89-MP-115		SCHLOSSBER
OPTRAC INC.	MERCHER		MICHAEL		89-MP-107		SMITH

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
GRPAC, INC.	CONDOH	JAMES	H	89-NC-189		WILKES
CDIN CORPORATION	HUANG	YEE-WEI		89-NE-128		GILES
COYSEY RESEARCH ASSOCIATES	GUASPARI	DAVID		89-NM-274		WAKSMAN
	HOCK	JAMES		89-NM-290		GILES
CHIO STATE UNIV RESEARCH FOUNDATION	AMALT	STANLEY	C	89-NE-208		NACHMAN
	BAKER	GREGORY	R	89-NM-320		WEINSTOCK
	EBNER	C.	A	89-NE-199	A	NACHMAN
OHIO STATE UNIVERSITY	FRIEDMAN	HARVEY		89-NM-203	C	WAKSMAN
	BROCKEY	ROBERT	S	89-NA-131		MCMICHAEL
CHIO UNIVERSITY	WIGEN	PHILLIP	E	89-NP-031	D	SCHLOSSBER
GLD COMINION UNIVERSITY	LOZYKOWSKI	HENRYK	J	89-NE-061		LITTON
CPTRON SYSTEMS, INC	TOIDA	SHUNICHI		89-NM-184	D	WAKSMAN
	FARBER	IRA		89-NE-142		GILES
	NICOLI	ANTHONY		89-NE-153		LITTON
	TSAKIRIS	TCOD		89-NP-100		SCHLOSSBER
CRCHRD SCIENTIFIC RESEARCH	GRESSMAN	ROBERT		89-NM-315		WAKSMAN
CRCHIO ONE CORPORATION	CREME	ALBERT	V	89-NE-150		LITTON
CREGON GRADUATE CENTER FOR STUDY & RESCH	BELL	A.	E	89-NE-193		WITT
CREGON HEALTH SCIENCES UNIVERSITY	LEHY	ALFREC	J	89-NL-167		BERRY
CRTEL CORPORATION	UNGRON	JEFFREY		89-NE-179		WITT
CXFORD COMPUTER	MCRTON	STEVEN	G	89-NE-123		GILES
CXFORD UNIVERSITY	M. GREEN	MALCOLM	L	89-NC-146		ULRICH
PACIFIC NORTHWEST RESEARCH FOUNDATION	MALINS	DONALD	C	89-NL-102		CERVEY
PALISADES INSTITUTE FOR RSCH SERVICES	GCLOFARB	MARK		89-NE-202		LITTON
PARALLEL LOGIC SYSTEMS	CHILUKURI	R		89-NA-124		HELIN
PARTICLE PHYSICS DIV. OF PLASMA PHYSIC	BLOSSER	ROBERT	C	89-NE-110		GILES
PATTERN PROCESSING TECHNOLOGIES, INC.	WERTH	LARRY	J	89-NE-111		GILES
PEAKS INSTRUMENTS, INC.	BARBI	NICHOLAS	C	89-NC-192		WILKES
PENGUIN SOFTWARE, INC	WEIGHT	THOMAS	H	89-NE-144		GILES
PENNSYLVANIA STATE UNIVERSITY	DLLIKRAVICH	GEORGE	S	89-NM-265		NELSON
	PANTANO	CARLO	G	89-NC-206		ULRICH
	RCY	RUSTUM		89-NC-221		ULRICH
	SMITH	GERALD	A	89-NP-035	A	KELLEY
PEREGRINE ENGINEERING	GRIFFIN	MICHAEL	F	89-NM-334		WAKSMAN
PHOTOMETRICS, INC.	TRAN	NAM	H	89-NE-180		LITTON
PHOTON RESEARCH ASSOCIATES INC.	CHLN	HOM	M	89-NM-234		NACHMAN
	TURNER	JAMES	D	89-NA-177	A	AMOS
PHYSICAL DYNAMIC INC	HASSLACHER	BROSL		89-NM-192		NELSON
	MACKAY	BRUCE		89-NP-073		SMITH
PHYSICAL OPTICS CORPORATION	AYE	TIN		89-NA-147		TISHKOFF
	CHEN	RAY	T	89-NE-178		WITT
	JANNSEN	TOMASZ		89-NE-143		GILES
	HOK	JOHN		89-NP-101		BARKER
	SAVANT	GAJENDRA		89-NC-196		ULRICH
PHYSICAL RESEARCH, INC.	FITZPATRICK	GERALD	L	89-NP-105		SMITH
	LEGNER	MARTHUT	H	89-NP-118		PERRIZO
PHYSICAL SCIENCES INC	AMIK	AVNER		89-NA-072		MCMICHAEL
PHYSICS & ENGINEERING RESEARCH				89-NP-129		BARKER

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
PIECENISE LINEAR SYSTEMS	GREENSPUN	PHILLIP		G	89-NM-304		NACHMAN
POLYTECHNIC INSTITUTE OF NEW YORK	KUNHARDT	ERICH		E	89-NP-093		SMITH
POLYTECHNIC UNIVERSITY	WOLF	EDWARD		L	89-NE-093	A	WEINSTOCK
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN	V.		J	89-NP-095		PERRIZO
PRINCETON PHYSICAL SCIENCES, INC.	PGYASEK	MARY			89-NM-294		NACHMAN
PRINCETON SCIENTIFIC ENTERPRISE, INC.	BLAIR	DAVID		W	89-NE-090		WITT
PRINCETON UNIVERSITY	JMA	NIRAJ		K	89-NM-244		WAKSMAN
	MILES	RICHARD		B	89-NA-115		PMICHAEL
	SMITS	ALEXANDER		J	89-NA-181		PMICHAEL
	SUADARESAN	SANKARAN			89-NC-155		ULRICH
PROGRAM DEV. CORP. OR SCARSDALE, INC	EISEMAN	PETER		R	89-NM-212	A	NELSON
PROGRAM DEVELOPMENT SYSTEMS INC	SCHWARTZ	JEFFREY		P	89-NL-156		FREGLY
PROMATEC, INC.	PRICE	HOWARD		L	89-AC-190		BURGGRAF
PROTO TYPE DEVICES	THOMAS	FRED			89-NE-138		GILES
PURDUE RESEARCH FOUNDATION	CHEN	HAI-FAN			89-NA-195		WU
PURDUE UNIVERSITY	GUNSHOR	ROBERT		L	89-NE-200		LITTON
	ATALLAH	MIKHAEL			89-NM-407		WAKSMAN
	SUN	WEN-YIH			89-NC-208		STOBIE
C-DOT INC	REED	DAVID		E	89-NE-056		GILES
QUANTEX CORPORATION	STCRTI	GEORGE		M	89-NE-074		WITT
QUANTIC INDUSTRIES, INC.	MCCANIEL	OLIN		K	89-NA-148		TISHKOFF
					89-NP-089		SCHLOSSER
					89-NP-090		WITT
QUANTUM EPITAXIAL DESIGNS, INC.	HIERL	THOMAS			89-NE-165		SMITH
QUANTUM MAGNETICS, INC.	AVRIN	WILLIAM		F	89-NP-108		WILKES
	SAGER	RONALD		E	89-NC-186		GILES
CUILTED LCGIC TECHNOLOGY COMPANY	CCPN	LEONARD			89-NE-146		WU
RE/SPEC INC	SENSENY	PAUL		E	89-NA-090		WAKSMAN
RSC INC	SUPMERS	THOMAS		S	89-NM-220		SMITH
RADIX SYSTEMS, INC.	PULLI	JAY		T	89-NP-109		TISHKOFF
REFRACTORY COMPOSITES	PAQUETTE	E.L.			89-NA-155	A	BOYCE
RENSELMEER POLYTECHNIC INSTITUTE	DORRY	RICARDO		E	89-NA-132		NACHMAN
	O'MALLEY, JR.	ROBERT			89-NM-204		BAROUCH
	PIMBLEY	JOSEPH			89-NM-340		NACHMAN
	ROYTAURO	VICTOR			89-NM-322		SCHOLER
	WOODFCRO	DAVID		A	89-NE-197		WEINSTOCK
RESEARCH FOUNDATION FOR MENTAL HYGIENE	RUCKENSTEIN	ELI		B	89-NE-185	C	NACHMAN
RICE UNIVERSITY	ENSOR	KATHERINE			89-NM-427		CROWLEY
	PEARSON	J.		B	89-NM-240		MATUSZKO
ROCKEFELLER UNIVERSITY	AGCSTA	WILLIAM		C	89-NC-168		BERRY
	HURLBUT	WILLIAM		P	89-NL-165		BERRY
	MCEWEN	BRUCE		S	89-NL-147		HARITOS
ROCKWELL INTEF. RESER. DEV. CENTER	COX	BRIAN		N	89-NM-194		MODARCZYK
ROCKWELL INTERNATIONAL	CHRISTE	K		D	89-AC-134		MODARCZYK
	WINKER	B		K	89-NC-136		GILES
	YEM	POCHI			89-NE-212		GILES
ROSEBERRY, INC.	RCSEBERRY	JERRY			89-NE-124		DAVIS
ROYAL HOLLOWAY & BEDFORD NEW COLLEGE	GARDNER	PETER		J	89-NC-201		

INSTITUTION

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
SELSYS CORPORATION	HANLIN	H.		89-NM-249		BAROUCH
STIEVERS RESEARCH INC	GGCEC	RICHARD	D	89-NE-121		GILES
SILMQUETE TECHNOLOGY, INC	DWYER	GENE		89-NE-157		WEINSTOCK
SOUTHERN ILLINOIS UNIVERSITY	ALCRED	ROBERT	E	89-NM-177		NACHMAN
	FERRARO	JAMES	S	89-NM-181		RANKIN
SOUTHERN METHODIST UNIVERSITY	KENNINGTON	JEFF	L	89-NL-145		BERRY
	SCLIMAN	SAMIR	S	89-NM-447	A	WILLER
SOUTHWEST SCIENCES, INC.	BOMSE	DAVID	S	89-NM-190		NACHMAN
SPACE POWER, INC.	LAWLESS	JOHN	L	89-NC-116		WILKES
SPARTA INC	LESIEUTRE	GEORGE	A	89-NC-200	A	WODARCZYK
SPECOM	DARBY	JOHN		89-NM-162		ANDS
SPECTRAL INTELLIGENCE CORP.	DAVIS	KENNETH	N	89-NM-301		WAKSMAN
SPECTRUM SCIENTIFIC	WIGGINS JR	HARVEY	W	89-NC-188		BURGGRAF
SPIRE CORPORATION	SEKULA-MOISE	PATRICIA		89-NL-082		BERRY
STANFORD UNIVERSITY	STEVENSON	DAVID	A	89-NE-086		WITT
	CFANG	FL-KUC		89-NE-186		LITTON
	FULLER	GERALD	G	89-NA-082		HARITOS
	HELLER	H	C	89-NC-143		ULRICH
	HEPRMANN	GEORGE		89-NL-146		FERRY
	HANNA	ZCHAR		89-NA-189		HARITOS
	PANTELL	RICHARD	H	89-NM-323	A	WAKSMAN
	SIGNON	THOMAS		89-NE-214		LITTON
STATE UNIVERSITY OF NEW YORK	SNOW	RICHARD	W	89-NP-153	A	SCHLOSSER
STATE UNIVERSITY OF NEW YORK	ANNON	ROBERT	E	89-NE-096		WITT
	STCPA	EDWARC	C	89-NL-177		TANGNEY
	KAZARINOFF	NICHOLAS	G	89-NA-191		AMOS
	MOORE	ROBERT	Y	89-NL-120		BERRY
	OSTERYOUNG	ROBERT	A	89-NM-354		NELSON
	PASTORE	RICHARD	E	89-NL-131		BERRY
	PRASAC	PARAS		89-NC-132		WILKES
	SOCUMKX	MEHRDAD		89-NL-164		TANGNEY
	ZACKS	SHELEMYAHU		89-NL-172		TANGNEY
STEVENS INSTITUTE OF TECHNOLOGY	SATYANARAYANA	A		89-NC-167	W	ULRICH
SUNBURST RECOVERY, INC	YOUNG	CHAPMAN		89-NC-202		ULRICH
SUNOL SCIENCES CORP.	STUDY	P	C	89-NM-440		NACHMAN
SUPERCONDUCTIVE TECHNOLOGIES, INC.	PIKE	STEPHEN	J	89-NM-238		BAROUCH
SYNAPSE COMPUTER SERVICES	BAKER	HENRY	G	89-NM-452		NACHMAN
SYRACUSE APPLIED REASONING	SCHLERETH	F.	H	89-NP-099		SMITH
SYSTEM ANALYSIS, DESIGN & ASSESSMENT	NEIGHBORS	JAMES	M	89-NP-093		SCHLOSSER
SYSTEM SPECIALISTS INC	PGTEETE	WADE	M	89-NM-105		SMITH
SYSTEMS & SECURITY TECHNOLOGY	KINCAID	GARY	W	89-NM-288		BAROUCH
TA COMPANY	AMN	TAE	M	89-NM-311		WAKSMAN
	JOHNSON	A.	D	89-NM-213		WAKSMAN
				89-NA-129		MCMICHAEL
				89-NM-277		WAKSMAN
				89-NA-170	C	HARITOS
				89-NE-195		SCHIDLER
TINI ALLOY COMPANY				89-NE-171		WITT

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TSI ENTERPRISES, INC.	JAPSHIDI	MOHAMMAD		89-NE-145		GILES
TACAN CORPORATION	NELSON	ARTHUR		89-NP-063		SMITH
TALANDIC RESEARCH CORP.	LANDESMAN	BARBARA		89-NM-279		NACHMAN
TANNER RESEARCH, INC.	TANNER	JOHN		89-NE-119		GILES
TECH. REPS., INC.	ETTRIDGE	NOEL	H	89-NP-084		SMITH
TECHNALYSIS INC	AKAY	HASAN		89-NA-099		MCMICHAEL
TECHNICAL ASSESSMENTS SYSTEMS, INC.	FELKNER	CECIL	U	89-NA-169		HARITOS
TECHNICAL RESEARCH ASSOCIATES INC.	GENASSE	CHANTAL	I	89-NL-114		CERVENY
TECHNION RSCH & DEVELOPMENT FOUNDATION	LIESE	GREGORY		89-NC-107	W	ULRICH
TECHNOLOGY INTERNATIONAL, INC	GAL-OR	LEAH		89-NA-092		MCMICHAEL
	MUSSEINY	ABOO		89-NE-060	A	SCHIDLER
	LIANG	ENJU		89-NM-283		WAKSMAN
TECHNOLOGY SYSTEMS, INC.	FARUQI			89-NM-282		NACHMAN
TENNESSEE UNIV SPACE INSTITUTE	KEEFER	DENNIS	A	89-NM-295		NACHMAN
	REDDY	K		89-NM-250		BAROUCH
TETRA CORPORATION	PLIZONDO	JUAN	C	89-NA-103	A	BIRKAN
TEXAS A AND M RESEARCH FOUNDATION	MOENY	WILLIAM	M	83-NM-410		NACHMAN
	CASSONE	V	M	89-NP-059		SMITH
	LITTLE	D	M	89-NE-081		WITT
TEXAS RESEARCH INSTITUTE INC	SMITH	J.	J	89-NL-104		BERRY
TEXAS TECH UNIVERSITY	CHESNAVICH	WALTER	L	89-NA-096		WU
THE HOUSE OF A. G.	ISHIHARA	OSAMU		89-NM-198	D	NACHMAN
THE IMAGINATION WORKS	GORALSKI	ANTHONY		89-NP-058		SMITH
THE TRYMER COMPANY	CASSELMAN	STEVEN	J	89-NC-141		DAVIS
TOOMAY, MATHEIS & ASSOCIATES, INC.	SCHROEDER	JOHN	A	89-NP-066	A	BARKER
	STICER	JCHN	C	89-NM-223		WAKSMAN
	MARTIN	HERVE		89-NM-317		WAKSMAN
	KCN	JCSEPH		89-NE-120		GILES
TOPICAL TESTING INC.	KERRIN	STEPHEN		89-NE-181		LITTON
TDR GEOPHYSICS CORPORATION	WALSH	FRASER		89-NE-182		WEINSTOCK
TRACER TECHNOLOGIES	PEARSON	ROBERT	A	89-NL-107	A	CERVENY
TRI-VALLEY RESEARCH	DAVIS	FRANCIS		89-NL-074		TANGNEY
TRINITY COLLEGE	COUNCIL			89-NP-065		SMITH
TROGLCOYTE SOCIETY, INC.	BCWN	PHILIP	L	89-NL-113		CERVENY
TRONAC, INC.	ABCELGHANI	A.		89-NC-181		ULRICH
TULANE UNIVERSITY	WSL	YI-JEAIN	M	89-NE-160		WEINSTOCK
TUSKEGEE INSTITUTE	NICHOLS	DCNALC	P	89-NC-210		MATUSIKO
TWO-SIX INCORPORATES	PHILLIPS	ANDREW	E	89-NA-073		SAKELL
U.S. NAVAL ACADEMY	FCSTER	EUGENE	R	89-NP-060		SMITH
UTD INC.	WAYNANT	RCNALC		89-NC-191		BALL
UNITED ENGINEERING TRUSTEES INC			A	89-NL-070		CERVENY
				89-NM-378		NACHMAN
			R	89-NE-166		WITT
			L	89-NM-353	A	GLASSMAN
				89-NA-120		WU
			W	89-NA-121		WU
				89-NP-085	A	SCHLOSSER
				99-NP-096	A	SCHLOSSER

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UNITEC TECHNOLOGIES RESEARCH CENTER UNIV OF ALABAMA	BLAIR	CAULFIELD	MICHAEL	F	89-NA-198		MELIN
		CHANDRASEKAR	M.	J	89-NE-196		GILES
UNIV OF ARIZONA	TOGHIANI	CALVERT	BECKY	K	89-NM-438		NACHMAN
		FRONTZISKONIS	PAUL		89-NM-437		NACHMAN
UNIV OF ARKANSAS	GIBSON	GLEZER	URSULA	J	89-NA-112	A	WJ
		KOSTUK	A		89-XD-010	A	CAVENDER
UNIV OF CALIFORNIA	NEWELL	BREWER	R.	K	89-NA-114	A	MCMICHAEL
		KCPOROSKI	ALAN	C	89-NE-210		GILES
UNIV OF CALIFORNIA/PINE BLUFF	BHATTACHARVVA	BRIDGEMAN	DENNIS	W	89-NM-389		NACHMAN
		CHAKRABARTI	RICHARD	A	89-NE-100	A	WEINSTOCK
UNIV OF CALIFORNIA	BISON	SCNERS	T	J	89-AM-253	C	NACHMAN
		BRUCE	J.	S	89-NM-172	A	CROWLEY
UNIV OF CALIFORNIA	DUEK	DYER	MICHAEL	T	89-NC-169	W	WODARCZYK
		FALCONE	SUPRIYA		89-NL-176		TANGNEY
UNIV OF CALIFORNIA	FULLER	HEEGER	TSU-SHUAN		89-NC-204		STODIE
		GLD	F	E	89-NM-403		GLASSMAN
UNIV OF CALIFORNIA	LACE	MARCUS	MICHAEL		89-NL-133		BERRY
		MCGINTY	JAMES	C	89-NM-264		WAKSHAM
UNIV OF CALIFORNIA	MCPECKING	MCPECKING	ROGER	W	89-NE-203	A	ROSENSTEIN
		MELLIAR-SMITH	CHARLES	A	89-NP-040	A	SCHLOSSBER
UNIV OF CALIFORNIA	PEARL	RCSS	ROBERT	J	89-NL-142		BERRY
		ROUSSAS	ALAN	J	89-NP-048		KELLEY
UNIV OF CALIFORNIA	STUCKY	WEINBERGER	POUL	V	89-NE-188		LITTON
		WEINBERGER	MARVIN		89-NA-123		BOYCE
UNIV OF CALIFORNIA	ZUCKER	HELLMAN	DENNIS	M	89-NM-372		NELSON
		KRIPKE	R.	M	89-NL-127		BERRY
UNIV OF CALIFORNIA, SAN DIEGO	SHIVAMOGGI	DLFONT	P-LLIAR		89-NA-188		MARITOS
		HUTENLOCHER	JUDEA	M	89-AM-270		WAKSHAM
UNIV OF CALIFORNIA	OKA	VAN CAUTER	MARK		89-NM-281		WAKSHAM
		BRYC	CHELDON	M	89-NP-049	A	SCHLOSSBER
UNIV OF CALIFORNIA	GHIA	LEHMAN	GEORGE	G	89-NM-324		BARUCH
			GALEN	D	89-NM-436		NACHMAN
UNIV OF CALIFORNIA	VAN CAUTER	LEHMAN	NORMAN	H	89-NC-113		ULRICH
			FRANK	S	89-AL-085		BERRY
UNIV OF CALIFORNIA	BRYC	GHIA	IRVING		89-NL-174		TANGNEY
		LEHMAN	FRANCES		89-NL-125		BERRY
UNIV OF CALIFORNIA	GHIA	LEHMAN	DANIEL	F	89-NE-194	A	WEINSTOCK
		LEHMAN	GHIMSEN	K	89-NL-119		BERRY
UNIV OF CALIFORNIA	VAN CAUTER	LEHMAN	TCDD	F	89-NM-271		NACHMAN
			JANELLEN		89-NM-454		NACHMAN
UNIV OF CALIFORNIA	BRYC	GHIA	TAKECHI		89-NL-178		FRGLY
		LEHMAN	EVE		89-NC-140	W	DAVIS
UNIV OF CALIFORNIA	GHIA	LEHMAN	WLODZIMIERZ		89-NL-152		BERRY
		LEHMAN	K		89-AM-185		BAROUCH
UNIV OF CALIFORNIA	VAN CAUTER	LEHMAN	MICHAEL	N	89-NA-205	A	MELIN
					89-NL-144		BERRY

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UNIV OF COLORADO	STJANOVIC	SROJAN		39-NM-395		NACHMAN
	WALKER	BRUCE	K	89-NM-180		BAROUCH
	OCUGLAS	KENNETH		89-NC-145		BURGGRAF
	NESBITT	DAVID	J	89-NC-162		WODARCZYK
UNIV OF CONNECTICUT	SCHWARTZ	MICHAEL	F	89-NC-198	A	WODARCZYK
	GLAZ	JOSEPH		89-NM-405		WAKSMAN
	KIM	DUCK	D	89-NM-435		NACHMAN
	KRISHNAMURTHY	L		89-NL-096		TANGNEY
UNIV OF DAYTON	ADVANI	SURESH	G	89-NA-159		MCMICHAEL
UNIV OF DELAWARE	BRILL	THOMAS	B	89-NC-214		ULRICH
	MICHAELIDES	EFSTATHIOS	E	89-NE-107		SCHICLER
	WONG	EVA		89-NA-138	A	BIRKAN
	PERRY	CAROLE		89-NA-204		TISHKOFF
UNIV OF DENVER	WEST	JON		89-NL-182		TANGNEY
	BRITTON	BRUCE	K	89-NC-170	W	ULRICH
	LEE	M.		89-NC-213	A	DAVIS
	GALBRAITH	RODERICK	H	89-NL-159		TANGNEY
UNIV OF FLORIDA	FADLEY	CHARLES	A	89-NM-425		NACHMAN
	ACHMUTY	GILES	S	89-NA-141	A	HELIN
	BREITMEYER	BRUNO	G	89-NP-036	A	SCHLOSSBER
	GLOWINSKI	RCLANC		89-NM-178		NACHMAN
UNIV OF GEORGIA	MSL	THOMAS	T	89-NL-095		TANGNEY
	HU	GAMBI		89-NM-371		CROWLEY
	ADESICA	ILESANMI		89-NA-197		WU
	APLJA	NARENDRA		89-NP-369		NACHMAN
UNIV OF ILLINOIS	EDEN	ROBERT	A	89-NE-062		WITT
	GILLETTE	MARTHA	G	89-NM-396		WAKSMAN
	KARALAMANGALA	J.	U	89-NA-111	A	BIRKAN
	SACKS	JEROME	S	89-NP-041		BERRY
UNIV OF INDIANA	GUTH	A.		89-NL-135		BAROUCH
	JPMNSON	RALPH	L	89-NM-239	A	BAROUCH
	LOPMAN	DAVID	F	89-NL-184		TANGNEY
	JUCLA	JAMES	F	89-NL-122		BERRY
UNIV OF KANSAS	RISHSEL	RAYMOND	W	89-NL-101	A	TANGNEY
	JENSEN	B.		89-NL-179		FREGLY
	ALEXANDER	JAMES	C	89-NM-431		NACHMAN
	BASIL	VICTOR	R	89-NP-094		SCHLOSSBER
UNIV OF KENTUCKY	DESTLER	WILLIAM	M	89-NM-201		NACHMAN
	STEWART	G.	W	89-NM-399		WAKSMAN
	SEIDMAN	THOMAS	I	89-NP-136		BARKER
	CRCFT	W.	B	89-NP-142		NELSON
UNIV OF KENTUCKY RESEARCH FOUNDATION	CGAG	WEI-BC		89-NM-402		NACHMAN
	UNIV OF LOWELL	FRANK	E	89-NM-382		WAKSMAN
	UNIV OF MARYLAND	KARASZ	T	89-NM-359		CROWLEY
	LEE	EDWARD		89-NM-228		ULRICH
UNIV OF MARYLAND BALTIMORE COUNTY	UNIV OF MASSACHUSETTS	LEE		89-NC-212		NACHMAN
	UNIV OF MIAMI	LEE		89-NM-645		NACHMAN

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UNIV OF MICHIGAN	CALAHAN	DCNALC		A	89-NM-400		WAKSPAN
	DAWM	WERNER		J	89-NA-201	A	TISHKOFF
	FAETH	GERARC		M	89-NA-185	A	TISHKOFF
UNIV OF MINNESOTA	KHARGONEKAR	P.		P	89-NM-358		CROWLEY
	CHEKASSKY	VALDIPIR		L	89-NE-191		GILES
	ERICKSEN	JERALC			89-NM-236	A	NACHMAN
					89-NM-325	A	NACHMAN
UNIV OF MISSOURI	HALBERG	FRANZ		J	89-NL-173		BERRY
	JONES	TERRY			89-NP-138		RAOOSKI
	MILLER	DOUGLAS			89-NE-192		GILES
	TANNENBAUM	ALLEN			89-NM-336		CROWLEY
	DEFACIO	BRIAN			89-NM-268	A	NACHMAN
	EL-SAYED	MCHAMED		P	89-NM-449		NACHMAN
	GIBBS	FINLEY		P	89-NL-129		BERRY
	HANDEL	PETER		M	89-NE-104	A	WITT
	KRISHNAPURAM	RAGHU			89-NE-190		GILES
	MOSTAFAVI	MASOUD			89-AP-139		BARKER
	RESCH	GARTH		E	89-NL-160		BERRY
	VENTURA	JOSE		A	89-NM-448		NACHMAN
	WELSH	WILLIAM		J	89-NC-161		DAVIS
UNIV OF NEBRASKA	DECGUN	JITENCER		S	89-NM-420		NACHMAN
	DEGLAS	ROONEY		W	89-NM-413		NACHMAN
	FARR	LYNN		A	89-NL-126		BERRY
	SIAGH	SAHJENDRA		N	89-NM-394		NACHMAN
UNIV OF NEVADA	BRUECK	S		R	89-NP-046	A	SCHLOSSBER
UNIV OF NORTH CAROLINA	HALL	JOSEPH		W	89-NL-099		TANGNEY
	TIMARI	RAM		C	89-NM-183		BAROUCH
UNIV OF NORTH DAKOTA	JERATH	SUKHVARSH		T	89-NM-439		NACHMAN
UNIV OF NORTH TEXAS	COLLIN	ROBERT		W	89-NC-176		MATUSZKO
	NELBERGER	JCHN		P	89-NM-342		NELSON
UNIV OF NOTRE DAME	E KINMARK	INGEMAR		P	82-NM-451		NACHMAN
UNIV OF OREGON	CRASEPANN	BERND		A	89-NP-151	A	KELLEY
	GERNSBACHER	MORTON		T	89-NL-098		FREGLY
UNIV OF PENNSYLVANIA	ACLER	NORMAN		S	89-NL-136		BERRY
	BALER	MARK		S	89-NL-151		BERRY
	DINGES	DAVID		F	89-NL-128		BERRY
	MCEACHRON	DCNALD		L	89-NL-150		BERRY
	MINTZ	MAX		S	89-NM-406		BAROUCH
	PRYMES	NGAM		M	89-NM-189	A	WAKSPAN
UNIV OF PITTSBURGH	CHIARULLI	DCNALC		M	83-NE-189		GILES
	GCLOBURG	WALTER		I	99-NA-179	A	MCMICHAEL
	HALL	RICHARD		W	89-NM-424		NACHMAN
	MONK	TIMOTHY		M	89-NL-132		BERRY
	SWITZER	JAY		A	89-NC-148		WILKES
UNIV OF RHODE ISLAND	CRICKSHANK	ALEXANDER		M	89-AE-063		GILES
UNIV OF ROCHESTER	EARNEST	DAVID		J	99-NL-138		BERRY
	EBERLY	J.		H	89-AP-132		KELLEY
	JENEKHE	SAWSON		A	89-NC-138		ULRICH

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF SOUTH FLORIDA	MEYERHOFER	DAVID	D	89-NP-131		KELLEY
	MUKAMEL	SPAUL		89-NC-163		CAVIS
	WALMSLEY	IAN	A	89-NC-165		CAVIS
	HALL	LAWRENCE	O	89-NM-391		NACHMAN
	LINDSEY	BRUCE	G	89-NL-067		BERRY
	BAKKS	M.	T	89-NM-337		NACHMAN
	MACHUKAR	ANUPAP		89-NE-187		LITTON
	MASRI	SAMI	F	89-NA-119		ANDS
	SAPONOV	MICHAEL	G	89-NM-355	A	CROWLEY
	SIAGER	LAWRENCE	A	89-NC-213		MATUSZKO
UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	MIANG	KAI		89-NE-211		GILES
	ALEXEFF	IGOR		89-NP-062	A	BARKER
UNIV OF TENNESSEE	RAJPUT	SALRAM	S	89-NM-344		BAROUCHE
UNIV OF TENNESSEE / SPACE INSTITUTE	MCCAY	MARY	H	89-NE-213		ROSENSTEIN
				89-NM-231	A	WODRUFF
UNIV OF TEXAS HEALTH SCIENCE CTR	CATTATREYA	G	P	89-NM-445		NACHMAN
	AGGARWAL	J.	K	89-NM-267		WAKSMAN
	BARNES	J.	W	89-NM-401		WAKSPAN
	COCKE	DANIEL	E	89-NM-230	A	WAKSMAN
	DOOLING	W	J	89-NL-181		TANGNEY
	FERRARIS	JCHN	P	89-NC-172		ULRICH
	KELLER	G.	R	89-NP-044	A	SMITH
	KENNON	STEPHEN	R	89-NM-434		NACHMAN
	LACDE	GANGARAM	S	89-NM-377		NACHMAN
	LONGBOOTHAM	HAROLD	G	89-NM-356	A	BAROUCHE
	NTAFOS	SIMEON	C	89-NM-415		NACHMAN
	SARGMEZ	ISAAC		89-NC-158		ULRICH
	VENKATESAN	SUBBARAYAN		89-NM-444		NACHMAN
	DAFNY	NACHUP		89-NL-137		BERRY
	THEODOSIOU	C.	E	89-NP-051		KELLEY
	MACSOVSKY	N.		89-NL-117		BERRY
	MATTIS	DANIEL	C	89-NE-094	D	WEINSTOCK
	ROWSEMITT	CAROL	N	89-NL-139		BERRY
	VARDENY	ZEEV	V	89-NC-159		MATUSZKO
	DOUGSTUN	KURT	E	89-NM-191	A	NACHMAN
UNIV OF VERMONT	BLOCK	GENE	D	89-NL-141		BERRY
	FARMER	B.	L	89-NC-151		CAVIS
UNIV OF VIRGINIA	MENAKER	MICHAEL		89-NL-140		BERRY
	MEYER	DAVID	G	89-NM-373		CROWLEY
UNIV OF WASHINGTON	PAPANTONI-KAZAKOS	P.		89-NM-173	D	WAKSMAN
	WOOD	HCUSTON	G	89-NM-423		NACHMAN
	CRIMINALE	W	D	89-NA-113		MCMICHAEL
	HELLER	E	J	89-NC-164		DAVIS
UNIV OF WISCONSIN	LAINÉ	RICHARD	M	89-NC-173	M	ULRICH
	PIETRO	WILLIAM	J	89-NC-121	D	ULRICH
	ARANO	RYGICH	S	89-NM-381		NACHMAN
	BUCKLEW	JAMES	A	89-NM-357		BAROUCHE
	LOVELL	EDWARD		89-NA-135		AMOS

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INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF WISCONSIN, PLATTVILLE	MCMAHON	ROBERT	J	89-NC-157		ULRICH
UNIVERSAL ENERGY SYSTEMS INC	PIETRO	WILLIAM	J	89-NC-096		ULRICH
	WAPBA	GRACE		89-NC-122		ULRICH
	SAET	YULY		89-NM-362		BAROUCH
	BUCK	ERIK	S	89-NM-349		NACHMAN
	JAGANNATHAN	G	V	89-NP-076		BARKER
	PRCNKO	PETER	P	89-NE-077		WITT
UNIVERSAL TECHNOLOGY CORP.	MATEJKA	RICHARD		89-NE-084		WITT
UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO	AGUILAR-ROBLERO	RAUL		89-NM-312		WAKSMAN
UNIVERSITAT KAISERSLAUTERN	BERGMANN	KLAAS	W	89-NL-169		BERRY
UNIVERSITY OF ALABAMA	BIGGS	ALBERT		33-NC-194		MODARCZYK
VRA, INC	LEWIS	CLARK	H	89-XC-008	A	CAVENDER
VANCE SYSTEMS, INC.	LUMPKIN	L.	M	89-NA-102		SAKELL
VANDERBILT UNIVERSITY	ELLINGHAM	MARK	N	89-NM-295		WAKSMAN
	SZTIPANOVIKS	JANDS		89-NM-182		RANKIN
	TOLK	NORMAN	H	89-NE-097		GILES
VARITRANS INTERNATIONAL CORPORATION	LCGAN	J	R	89-AC-179		BURGGRAF
VATELL CORPORATION	LANGLEY	LAWRENCE	W	89-NL-080		TANGNEY
VEXTRA CORP.	KARSPECK	MILAN		89-NA-165		HELIN
VIRGINIA POLYTECHNIC INST & STATE UNIV	HERBERT	THORNALD		89-NE-115		GILES
VISTA RESEARCH CORPORATION	CALDWELL	J.	G	89-NA-118		MCMICHAEL
VITESSE SEMICONDUCTOR	DEYHIMY	IRA		89-NM-171		WAKSMAN
WLZ CORP.	ZHANG	YOU-WEN		89-NM-175		WAKSMAN
WAGNER DANIEL M ASSOCIATES, INC	QVERTON	ROBERT	H	89-NE-174		WITT
WAM, LEE AND ASSOCIATES, INC.	JIAN-BANG	LIU		89-NP-112		SCHLOSSBER
WASHINGTON STATE UNIVERSITY	ARIYAWANSA	K	A	89-NM-287		BAROUCH
WASHINGTON UNIVERSITY	RCCIN	ERVIN	Y	89-N4-157		TISHKOFF
WAYNE STATE UNIVERSITY	TARN	TZYH-JONG		89-NM-366		GLASSMAN
WEIDLINGER ASSOCIATES	LEL	RAOUF	A	89-NM-430		NACHMAN
	SANDLER	JIA-GUU	S	89-NM-413		NACHMAN
	WRIGHT	JOSEPH	P	89-NM-367		NACHMAN
WELLESLEY COLLEGE	DARROW	JANET	M	89-AM-404		WAKSMAN
WEST VIRGINIA UNIVERSITY	HATTORI	HARUMI		89-NA-071		BOYCE
	LI	DENING		89-NM-186		NELSON
	PETERSEN	JEFFREY	L	89-NA-168		AMOS
	ZHANG	CUN-QUAN		89-NL-143		BERRY
WICHITA STATE UNIVERSITY	WOJCIK	ZBIGNIEW		89-NM-200		NACHMAN
	MLMI	MAYER		89-NM-202		NACHMAN
WORCESTER POLYTECHNIC INSTITUTE	SPAW	ARNAB		89-NC-095		MATUSZKO
WRIGHT STATE UNIVERSITY	HEISSALL	LEENA-MAIJA		33-NM-243		HOLLAND
XQX CORP.	SPARMA, PH.D	BMU DEV		89-NM-263		WAKSMAN
XAVIER UNIVERSITY	FAY	THEODORE		89-NM-397		WAKSMAN
XONTECH INC (FORMERLY XONICS INC)	EYLER	EDWARD		89-NM-246		NACHMAN
YALE UNIVERSITY				89-NM-241		BAROUCH
				89-NM-305		NACHMAN
				89-NM-252		NACHMAN
				89-NP-091		PADOSKI
				89-NP-074		KELLEY

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YALE UNIVERSITY SCHOOL OF MEDICINE
YELLOWSTONE ENVIRONMENTAL SCIENCE

INVESTIGATOR		PROPOSAL	STATUS	PM NAME
LAST NAME	FIRST NAME			
HERZENBERG	A.	89-NP-134		KELLEY
HIRSCH	JCY	89-NL-186		TANGNEY
VAN DEN PCL	ANTHONY	89-NL-154	N	SERRY
HUNTER	ROBERT	89-NL-111	M	CERVENY

PART II

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ADAPTIVE CONTROL OF NONLINEAR FLEXIBLE SYSTEMS INTEGRATED SYSTEMS, INC.	KOSUT	N 36 07/01/89 \$352,436	AMOS 89-NA-083	
ANALYTICAL AND EXPERIMENTAL STUDIES OF INHERENTLY NONLINEAR COMPENSATORS UNIV OF SOUTHERN CALIFORNIA	MASRI	N 36 03/02/89 \$373,201	AMOS 89-NA-119	
DEPLOYMENT VIBRATIONS OF SPACECRAFT APPENDAGES WITH PAYLOADS UNIV OF WISCONSIN	LOVELL	N 12 07/02/89 \$47,000	AMOS 89-NA-135	
INVESTIGATION OF LIQUID SLOSHING IN SPIN-STABILIZED SATELLITES IOWA STATE UNIV OF SCIENCE AND TECH	BAUNGARTEN	R 36 07/02/89 \$289,135	A AMOS 89-NA-136	\$106,824 01/07/89 \$341,488
(SBIR) PROBABILISTIC STRUCTURAL MECHANICS RESEARCH FOR PARALLEL PROCESSING COMPUTERS APPLIED RESEARCH ASSOCIATES INC	SUES	N 06 21/02/89 \$49,900	AMOS 89-NA-150	
(SBIR) PREDICTION OF FLUTTER IN PANELS MADE FROM ADVANCEC COMPOSITE MATERIALS ANAMET LABORATORIES, INC.	ARNOLD	N 06 21/02/89 \$49,296	AMOS 89-NA-159	
(SBIR) EXPERIMENTAL METHODS AND INSTRUMENTATION FOR EVALUATING PASSIVE DAMPING OF MATERIALS FOR SPACE STRUCTURES SEB ENGINEERING, INC.	KRAUTHAMMER T	N 06 21/02/89 \$55,580	AMOS 89-NA-160	
STRUCTURAL RELIABILITY-CUM-UNCERTAINTY ANALYSIS EDA CONSULTANTS	SUNDARAJAN	N 06 21/02/89 \$47,531	AMOS 89-NA-161	
(SBIR) REAL-TIME, LONG-TERM MEASUREMENT OF MATERIAL DYNAMIC PROPERTIES IN SPACE SPARTA INC	LESTIEUTRE	N 06 21/02/89 \$49,397	AMOS 89-NA-162	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TST AMT
(SBIR) MULTI-DISCIPLINE ANALYSIS/OPTIMIZATION METHODOLOGY DEVELOPMENT RELATING TO STRUCTURES CASE AEROSPACE	ABOI	N 06 21/02/89 \$48,979	AMOS 89-NA-166	
(SBIR) A NEW DESIGN OF A PASSIVELY DAMPED JOINT FOR LARGE SPACE STRUCTURES ADVANCED COMPOSITE ENGINEERING, INC.	SUN	N 06 21/02/89 \$49,480	AMOS 89-NA-167	
(SBIR) AUTOMATED TESTING PROCEDURES FOR COMPUTATIONAL MECHANIC SOFTWARE HEIDLINGER ASSOCIATES	WRIGHT	N 06 21/02/89 \$49,693	AMOS 89-NA-168	
TRANSFORM METHODS FOR PRECISION NONLINEAR WAVE MODELS OF FLEXIBLE SPACE STRUCTURES PHOTON RESEARCH ASSOCIATES INC.	TURNER	N 06 24/02/89 \$10,000	A AMOS 89-NA-177	\$10,000 01/03/89 \$10,000
IMPROVED COMPUTATIONAL STRATEGY FOR PREDICTING THE RESPONSE OF COMPLEX SYSTEMS GEORGE WASHINGTON UNIVERSITY	NGCR	N 06 24/02/89 \$10,000	A AMOS 89-NA-178	\$10,000 01/03/89 \$10,000
MODELING AND CONTROL OF MULTI-LINK FLEXIBLE ARTICULATED STRUCTURES STANFORD UNIVERSITY	ANNON	N 36 18/03/89 \$478,400	AMOS 89-NA-191	
COMPUTER DERIVATION OF GREEN'S FUNCTIONS FOR STRUCTURAL DYNAMIC ANALYSIS AECOR CORPORATION	FABUNMI	R 24 18/03/89 \$150,000	A AMOS 89-NA-192	\$15,000 01/07/89 \$150,000
FINITE ELEMENT ANALYSIS OF COMPOSITE SHELLS AIR FORCE INSTITUTE OF TECHNOLOGY	PALAZOTTO	N 36 22/03/89 \$145,399	A AMOS 89-NA-200	\$72,040 01/07/89 \$145,399
PULSE PROBING AND DECONVOLUTION IN THE DYNAMIC CHARACTERIZATION OF STRUCTURAL NATIONAL BUREAU OF STANDARDS	SIMIU	N 07 28/03/89 \$187,500	A AMOS 89-NA-203	\$37,500 01/03/89 \$37,500

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PICOSECOND LASER BREAKDOWN THRESHOLDS IN GASES TENNESSEE UNIV SPACE INSTITUTE	KEEFER CENNIS	R 17 17/01/89 \$170,000	A BIRKAN 89-NA-103	\$49,977 01/09/89 \$170,000
PROPULSION RESEARCH ON THE HYBRID PLUME PLASMA ROCKET MASSACHUSETTS INSTITUTE OF TECHNOLOGY	YANG T	N 05 25/01/89 \$75,000	A BIRKAN 89-NA-106	\$75,000 01/09/89 \$75,000
TRANSPORT PROCESSES IN BEAMED-ENERGY PROPULSION SYSTEMS UNIV OF ILLINOIS	BEODINI ROBERT	R 18 31/01/89 \$143,450	A BIRKAN 89-NA-111	\$42,081 01/09/89 \$143,450
THERMAL DECOMPOSITION MECHANISMS OF NEW POLYCYCLIC NITRAPINES UNIV OF DELAWARE	BRILL THOMAS	R 24 13/02/89 \$199,761	A BIRKAN 89-NA-138	\$99,803 20/09/89 \$199,761
A CHEMICAL KINETIC DATA BASE FOR PROPELLANT COMBUSTION NATIONAL BUREAU OF STANDARDS	TSANG WING	N 12 14/02/89 \$40,000	A BIRKAN 89-NA-142	\$40,000 01/06/89 \$40,000
(SBR) DEVELOPMENT AND APPLICATION OF NEW THEORIES.... TEMPERATURE TRANSIENT CALCULATION IN SOLID PROPELLANT ALADAR STOLMAR	STOLMAR ALADAR	N 06 17/02/89 \$50,000	BIRKAN 89-NA-144	
(SBR) AN EXPERIMENTAL INVESTIGATION OF COMBUSTION INSTABILITY PHENOMENA IN LIQUID-FUELED ROCKET ENGINES AEROMETRICS, INC.	BACHALO WILLIAM	N 06 17/02/85 \$49,956	BIRKAN 89-NA-145	
(SBR) STUDY OF COMBINES MHD AND LASER ABSORPTION WAVES IN HYBRID LASER AND PLASMA THRUSTERS ANALATOM INC	CAMBIER JEAN-LUC	N 06 17/02/89 \$5,462,386	BIRKAN 89-NA-146	
(SBR) OBJECTIVE MATERIAL TREATMENT FOR STRUCTURAL ANALYSIS WEIDLINGER ASSOCIATES	SANDLER IVAN	N 06 06/01/89 \$49,938	BOYCE 89-NA-071	

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STRAIN-ENTROPY MODELING OF BLAST INDUCED SOIL LIQUEFACTION COLORADO STATE UNIVERSITY	CHARLIE WAYNE	N 36 11/01/89 \$230,564	BOYCE 89-NA-087	
(SBIR) A RATE-SENSITIVE CONTINUUM DAMAGE MODEL FOR NONCLASSICAL MATERIALS BERKELEY APPLIED SCIENCE & ENGR.	PANAPANDEN	N 06 11/01/89 \$49,441	BOYCE 89-NA-088	
(SBIR) NUMERICAL MODELING OF GEOMECHANICAL PROBLEMS ITASCA CONSULTING GROUP INC	VAROULAKIS IOANNIS	N 06 11/01/89 \$45,380	BOYCE 89-NA-096	
SUPER COMPUTER TIME CRAY-2, FOR PI BLOUIN-ARA AIR FORCE WEAPONS LAB	BURNETTE	N 09 12/01/89 \$600	A BOYCE 89-NA-098	\$600 01/01/89 \$600
CORE SUPPORT FOR THE GEOTECHNICAL BOARD NATIONAL ACADEMY OF SCIENCES	CHUNG RILEY	N 21 01/02/89 \$40,000	A BOYCE 89-NA-116	\$20,000 01/06/89 \$40,000
(SBIR) IN-SITU DETERMINATION OF THE DYNAMIC PROPERTIES OF SOILS SCIENCE AND TECHNOLOGY RESEARCH INC	QI G	N 06 06/02/89 \$49,807	BOYCE 89-NA-123	
CONSTITUTIVE AND MICROMECHANICAL STRESS-STRAIN MODELING RENSSELAER POLYTECHNIC INSTITUTE	CCRY RICARDO	N 12 07/02/89 \$169,968	A BOYCE 89-NA-132	\$169,968 05/06/89 \$168,968
EXPERIMENTAL STUDY OF NONASSOCIATED FLOW AND INSTABILITY OF FRICTIONAL MATERIALS UNIV OF CALIFORNIA	LADE POUL	N 24 07/02/89 \$174,829	BOYCE 89-NA-133	
(SBIR) DEVELOPMENT OF MICROMECHANICALLY BASED CONTINUUM MODEL FOR DISCONTINUUM ANALYSIS ITASCA CONSULTING GROUP INC	CUNDALL PETER	N 06 22/02/89 \$45,945	BOYCE 89-NA-174	

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DEVELOPMENT AND APPLICATION OF ANALYSIS METHODS FOR ELECTRICAL PROPERTIES OF COMPOSITES MATERIALS SCIENCES CORPORATION	SULLIVAN BRIAN	N 06 06/01/89 \$50,000	HARITOS 89-NA-074	
(SBIR) ATOMISTIC AND MACROSCOPIC MODELLING OF MECHANICAL BEHAVIOR OF MULTIPHASE MATERIALS CHEMICAL DYNAMICS CORPORATION	MURPHY C	N 06 06/01/89 \$45,982	HARITOS 89-NA-078	
(SBIR) DEVELOPMENT OF AN ADVANCED CONTINUUM THEORY FOR COMPOSITE LAMINATES BERKELEY APPLIED SCIENCE & ENGR.	GHANINATI G	N 06 06/01/89 \$49,140	A HARITOS 89-NA-079	\$49,140 01/07/89 \$49,140
(SBIR) DEVELOPMENT AND APPLICATION OF NEW THEORIES AND CONCEPTS RELATING TO STRUCTURES MATERIALS SCIENCES CORPORATION	SULLIVAN BRIAN	N 06 07/01/89 \$49,980	HARITOS 89-NA-090	
(SBIR) MICRO AND MACRO MODELS OF FRICTION AND DAMAGE OF METALLIC INTERFACES COMPUTATIONAL MECHANICS COMPANY INC	TWORZYDLC A. WOYTEK	N 06 07/01/89 \$50,000	HARITOS 89-NA-091	
DAMAGE TOLERANCE OF LAMINATED COMPOSITES TO IMPACT STANFORD UNIVERSITY	CHANG FU-KUO	N 36 07/01/89 \$293,068	HARITOS 89-NA-092	
FLOW SENSITIVITY IN CERAMIC-MATRIX COMPOSITES CARNEGIE-MELLON UNIVERSITY	STELF PAUL	N 25 17/01/89 \$251,583	HARITOS 89-NA-104	
AN ANISOTROPIC MODEL OF COUPLED DAMAGE MECHANICS AND FINITE PLASTICITY FOR DUCTILE FRACTURE LOUISIANA STATE UNIVERSITY	VOYIACJIS GEORGE	N 36 31/01/89 \$294,914	D HARITOS 89-NA-109	
CHAOTIC BEHAVIOR OF MODIFIED STOKER COLUMN, AND OF FORCECE AUTONOMOUS FLUIDELASTIC OSCILLATORS NATIONAL INST. OF STANDARDS & TECHNOLOGY	SIMIL EMIL	N 12 31/01/89 \$8,000	HARITOS 89-NA-110	

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(SBIR) A GROUP CONTRIBUTION METHOD FOR THE MECHANICAL PROPERTIES OF AEROSPACE EPOXY RESINS ADVANCED MATERIALS DESIGN, INC.	KULSHRESTHA ALOK	N 06 21/02/89 \$49,650	HARITOS 89-NA-143	
(SBIR) A TREATISE ON STOCASTICITY OF THE NONLINEAR RESPONSE AND CF "MCM" CARBON-CARBON STRUCTURES IN HYPERSONIC ENVIRONMENT INTEGRATED AEROSPACE SCIENCES CORP.	BOTILIOS CIMITRI	N 06 21/02/89 \$62,570	HARITOS 89-NA-164	
(SBIR) MODELING OF FAILURES AND DELAMINATION BUCKLING AND GROWTH IN COMPOSITE LAMINATES TECHNOLYSIS INC	AKAY HASAN	N 06 22/02/89 \$50,000	HARITOS 89-NA-159	
(SBIR) THE KINETIC FORMULATION OF THE EMBRITTLEMENT-INDUCED DEGRADATION OF MECHANICAL PROPERTIES IN CERAMIC OR GLASS COM MAT TA COMPANY	AMN TAE	N 06 22/02/89 \$27,989	D HARITOS 89-NA-170	
(SBIR) A METHOD FOR PREDICTING PERMANENT DEFORMATION AEROSPACE STRUCTURES OF METAL MATRIX COMPOSITES SUBJECTED TO THERMO-MECHANIC ANALYT LABORATORIES, INC.	SUN C	N 06 22/02/89 \$49,480	HARITOS 89-NA-171	
(SBIR) METHODOLOGY FOR MODELLING THE STRUCTURAL RESPONSE OF MULTI-LAYERED COMPOSITES APTECH ENGINEERING SERVICES, INC.	CIPOLLA RUSSELL	N 06 22/02/89 \$49,800	HARITOS 89-NA-172	
(SBIR) CONSTITUTIVE EQUATION DETERMINATION INTO THE LARGE STRAIN REGIME ATKINSON-NOLAN & ASSOCIATES INC	ATKINSON F.M.	N 06 22/02/89 \$48,979	HARITOS 89-NA-173	
HIGH PERFORMANCE LAMINATED COMPOSITES UNIV OF CALIFORNIA	MCMECKING R.	N 36 18/03/89 \$790,909	HARITOS 89-NA-188	
MECHANICS IN MATERIAL SPACE STANFORD UNIVERSITY	HERRMANN GEORGE	N 24 18/03/89 \$176,038	HARITOS 89-NA-189	

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TITLE (CONT.) INSTITUTION				
MECHANICS OF FAILURE OF M.T. MMC ROCKWELL INTER. RESER. & DEV. CENTER	COX BRIAN	N 36 18/03/89 \$299,957	HARITOS 89-NA-194	
(SBIR) A STUDY OF TURBULENCE EFFECTS IN TRANSPIRATION COOLING NIELSEN ENGINEERING AND RESEARCH CO	NIXON CAVID	N 06 06/01/89 \$55,000	MELIN 89-NA-068	
(SBIR) DYNAMIC STALL CONTROL USING VORTEX BLOWING EIDETICS INTERNATIONAL INC.	NG T. TERRY	N 06 06/01/89 \$59,825	MELIN 89-NA-069	
(SBIR) A NEW ADAPTIVE NUMERICAL APPROACH FOR SIMULATING THE VORTEX SHEEDING IN HIGH REYNOLDS NUMBER VISCOUS FLOW INTELLIGENT SYSTEMS INTEGRATION INC.	LU Z	N 06 11/01/89 \$49,972	MELIN 89-NA-091	
ARO MIPR FOR LTRC/CARTA ARMY RESEARCH OFFICE	COLIGALSKI TOM	N 24 25/01/89 \$146,000	A MELIN 89-NA-105	\$56,000 15/02/89 \$146,000
UNSTEADY FLOW FIELD OF LARGE-AMPLITUDE PITCHING AIRFOILS MICHIGAN STATE UNIVERSITY	KOOCFESFAM MANDOCHEMR	N 24 27/01/89 \$134,954	A MELIN 89-NA-108	\$100,000 01/05/89 \$134,954
(SBIR) FINITE ELEMENT ANALYSIS OF FLUID-STRUCTURE INTERACTIONS PARALLEL LOGIC SYSTEMS	CHILUKURI R	N 06 06/02/89 \$48,700	MELIN 89-NA-124	
(SBIR) COLOR STEREOGRAPHIC PROJECTION FOR 3-D FLUID FLOW USING LOW COST COMPUTERS ADVANCED PROJECTS RESEARCH INC	PEPPER CARRELL	N 06 06/02/89 \$49,758	MELIN 89-NA-125	
AN ASPECT OF DYNAMIC STALL DEVELOPMENT UNIV OF GLASGOW	GALBRAITH RODERICK	N 24 14/02/89 \$114,682	A MELIN 89-NA-141	\$56,052 01/07/89 \$114,682

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(S9IR) HEAT FLUX MICROSENSOR DEVELOPMENT VATELL CORPORATION	LANGLEY LAWRENCE	N 06 21/02/89 \$50,841	HELIN 89-NA-165	\$86,092 01/06/89 \$86,092
IMPROVING VISCOUS DESIGN AND ANALYSIS METHODS FOR TRANSONIC COMPRESSOR BLADING MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DRELA PARK	N 12 22/02/89 \$86,092	A HELIN 89-NA-175	\$86,092 01/06/89 \$86,092
STUDY OF MASSIVE ENHANCEMENT OF HEAT TRANSFER FOR TURBULENT BOUNDARY LAYERS ON CONCAVE-SURFACES UNITED TECHNOLOGIES RESEARCH CENTER	BLAIR MICHAEL	N 24 20/03/89 \$199,645	HELIN 89-NA-199	
COMPUTER SUPPORT FOR GHIA/UNIVERSITY OF CINCINNATI, AFOSR-87-0074 UNIV OF CINCINNATI	GHIA K	N 05 28/03/89 \$8,000	A HELIN 89-NA-205	\$8,000 01/03/89 \$9,000
(S9IR) MECHANISMS AND CONTROL OF SUPERSONIC SHEAR LAYERS PHYSICAL SCIENCES INC	LEGNER HARTMUT	N 06 06/01/89 \$45,973	MCMICHAEL 89-NA-072	
(SBIR) NUMERICAL AND ANALYTICAL STUDIES OF LAMINAR TC TURBULENCE TRANSITION HIGH TECHNOLOG CORP	PALIK PUJEEB	N 06 09/01/89 \$49,920	A MCMICHAEL 89-NA-094	\$49,920 06/07/89 \$49,920
(SBIR) FEASIBILITY OF LOW-COST MEANS OF OBTAINING ROUGHNESS- INFLUENCES CONVECTIVE DATA APPLICABLE TO THE REENTRY ENVIRONMENT ASTRON RESEARCH & ENGINEERING	DAMM THOMAS	N 06 11/01/89 \$65,540	MCMICHAEL 89-NA-099	
(SBIR) TECHNICAL RESEARCH ASSOCIATES, INC TECHNICAL RESEARCH ASSOCIATES INC.	LIESE GREGORY	N 06 11/01/89 \$55,000	MCMICHAEL 89-NA-092	
(SBIR) REENTRY VEHICLE SCALLOP-ROUGHNESS CONVECTIVE TRANSFER ASTRON RESEARCH & ENGINEERING	MEYDT RICHARD	N 06 11/01/89 \$65,557	MCMICHAEL 89-NA-093	

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(SBIR) AN INVESTIGATION OF SEVERAL TURBULENCE MODELS FOR COMPLEX ROTOR-STATOR PROBLEMS USING AN ADAPTIVE FINITE ELEMENT PROCEDURE COMPUTATIONAL MECHANICS COMPANY INC	STEVEN STOMERS	N 06 11/01/89 \$50,000	MCMICHAEL 89-NA-094	
(SBIR) A FEASIBILITY STUDY FOR A MICRO-MECHANICAL FLAT PRESSURE SENSOR ANALYTICAL SERVICES & MATERIALS INC	SHAHID SIDDIQUI	N 06 11/01/89 \$50,000	MCMICHAEL 89-NA-095	
(SBIR) AERODYNAMICS OF LIFTING JETS AS APPLIED TO AIR CUSHION VEHICLES TECHNALYSIS INC	HASAN AKAY	N 06 12/01/89 \$50,000	MCMICHAEL 89-NA-099	
COMPUTER SUPPORT FOR SIMULATION OF COUETTE-POISEUILLE FLOW NASA - AMES RESEARCH CENTER	ROGALLO R	N 13 25/01/85 \$27,734	A MCMICHAEL 89-NA-107	\$19,126 01/03/89 \$27,734
BOY BREAKDOWN AND STRUCTURE DEVELOPMENT UNIV OF WASHINGTON	CRIMINALE M	N 24 01/02/89 \$30,586	MCMICHAEL 89-NA-113	
REAL-TIME ADAPTIVE FEEDBACK CONTROL OF MIXING IN A PLANE SHEAR LAYER UNIV OF ARIZONA	GLEZER A	N 36 01/02/89 \$299,532	A MCMICHAEL 89-NA-114	\$118,171 05/06/89 \$299,532
BOUNDARY LAYER CHARACTERIZATION AND THREE-DIMENSIONAL VORTICITY MEASUREMENTS BY RAYLEIGH SCATTERING AND RELIEF PRINCETON UNIVERSITY	MILES RICHARD	N 36 01/02/89 \$951,277	MCMICHAEL 89-NA-115	
THREE-DIMENSIONAL STRUCTURE OF BOUNDARY LAYERS IN TRANSITION TO TURBULENCE VIRGINIA POLYTECHNIC INST & STATE UNIV	HERBERT THORWALD	N 36 02/02/89 \$188,489	MCMICHAEL 89-NA-119	
(SBIR) IMPROVED DIAGNOSTICS AND MEASUREMENT FOR MATERIALS PROCESSING AND FLOW SYSTEM SPECIALISTS INC	POTETE WADE	N 06 06/02/89 \$48,205	MCMICHAEL 89-NA-129	

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(SBIR) AN INVESTIGATION OF SMART SKIN TECHNOLOGY FOR VORTEX FLOW DETECTION AND MANIPULATION INNOVATIVE DYNAMICS	HICKMAN GAIL	N 06 06/02/89 \$53,452	MCMICHAEL 89-NA-130	
IMAGE PROCESSING AND ANALYSIS FOR TURBULENT SHEAR FLOW STUDY				
CHIO STATE UNIVERSITY	BRODKEY	N 36 07/02/89 \$245,759	MCMICHAEL 89-NA-131	
(SBIR) A NEW MAGNETIC FLOWMETER				
ION PHYSICS CORP.	MILDE	N 06 13/02/89 \$50,000	MCMICHAEL 89-NA-143	
PROPOSED STUDY OF TURBULENCE BY PHOTON CORRELATION SPECTROSCOPY				
UNIV OF PITTSBURGH	GOLDBURG	N 16 01/03/89 \$55,000	A MCMICHAEL 89-NA-179	\$55,000 15/06/89 \$55,000
TRANSMISSION OF LIGHT THROUGH A TURBULENT MIXING LAYER				
CALIFORNIA INSTITUTE OF TECHNOLOGY	ROSHKO	N 36 01/03/89 \$224,616	MCMICHAEL 89-NA-190	
THE STRUCTURE OF SUPERSONIC TURBULENT SHEAR LAYERS				
PRINCETON UNIVERSITY	SMITS	R 18 01/03/89 \$289,712	MCMICHAEL 89-NA-191	
(SBIR) DEVELOPMENT OF A NEW MODEL FOR ANISOTROPIC TURBULENT FLOWS				
CREARE INC. RESEARCH & DEVELOPMENT INC	MARSHALL	N 06 02/03/89 \$49,750	MCMICHAEL 89-NA-186	
(CURI) ASYMPTOTIC ANALYSIS OF TURBULENT SHEAR FLOWS: HIGHER-ORDER APPROXIMATIONS UNIV OF DAYTON	KRISPNAMLRTHY L	N 36 21/03/89 \$288,195	MCMICHAEL 89-NA-199	
(SBIR) OPTIMIZATION OF MESHES FOR NUMERICAL SOLUTION OF NAVIER-STOKES EQUATIONS TROGLUDYTE SOCIETY, INC.	COUNCIL FRANCIS	N 06 06/01/89 \$50,000	SAKELL 89-NA-073	

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TITLE (CONT.)			PROGRAM MANAGER	START DATE
INSTITUTION			PROPOSAL #	TOT AMT
(SBIR) NEW ADAPTIVE GRID GENERATION TECHNIQUE AND ITS APPLICATIONS TO CFD ANALYSIS CASE AEROSPACE		MIROSHI	SAKELL 89-NA-085	\$1,000 12/01/89 \$1,000
ANDERSON CRAY-2 SUPPORT, BEA-89-057				
AIR FORCE WEAPONS LAB		LOPEZ	SAKELL 89-NA-097	\$1,000 12/01/89 \$1,000
(SBIR) COUPLING GRID ADAPTION TO AN IMPLICIT NAVIER-STOKES SOLUTION PROCEDURE AMTEC ENGINEERING INC		IMLAY	SAKELL 89-NA-100	\$50,000 12/01/89 \$50,000
(SBIR) INNOVATIVE CFD METHODOLOGY FOR COMPLEX AERODYNAMIC FLOW PREDICTION COMPUTATIONAL MECHANICS CORPORATION		SCOTT	SAKELL 89-NA-101	\$50,000 12/01/89 \$50,000
(SBIR) A THREE-DIMENSIONAL PERFECT-GAS AND EQUILIBRIUM-AIR PMS SCHEME FOR HYPERSONIC BLUNT-BODY FLOWS VRA, INC		CLARK	SAKELL 89-NA-102	\$47,908 12/01/89 \$47,908
(SBIR) UNSTEADY BASE PRESSURE ALMATECH		ALEXANDER	SAKELL 89-NA-126	\$49,899 06/02/89 \$49,899
(SBIR) INNOVATIVE STORAGE TECHNIQUES FOR FINITE ELEMENT METHODS MAINSTREAM ENGINEERING CORPORATION		JAY	SAKELL 89-NA-127	\$43,928 06/02/89 \$43,928
(SBIR) DEVELOPMENT AND APPLICATION OF NEW THEORIES AND CONCEPTS IN HYPERSONIC FLOWS WITH STRONG VISCOUS INTERACTIONS ASTACX CORP.		V	SAKELL 89-NA-128	\$47,611 06/02/89 \$47,611
VORTEX DYNAMICS CORNELL UNIVERSITY		SIDNEY	SAKELL 89-NA-134	\$192,024 07/02/89 \$192,024
				\$93,297 01/06/89 \$152,024

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(SBIR) DESIGN OF A VISCOMETER-DENSITOMETER FOR REAL-TIME IN-LINE APPLICATIONS AUGUST DESIGN & DEVELOPMENT	FITZGERALD J VINCENT	N 06 23/02/89 \$49,851	SAKELL 89-NA-176	\$119,791 01/07/89 \$239,791
DEVELOPMENT AND APPLICATION OF NEW ALGORITHMS FOR THE SIMULATION OF COMPRESSIBLE FLOWS WITH MOVING BODIES IN THREE DIMENSIONS GEORGE WASHINGTON UNIVERSITY	RAINALD LOHNER	N 24 01/03/89 \$239,791	A SAKELL 89-NA-183	\$119,791 01/07/89 \$239,791
ADAPTIVE NAVIER-STOKES CALCULATIONS FOR VERTICAL FLOWS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MURMAN EARLL	R 36 02/03/89 \$496,957	A SAKELL 89-NA-134	\$155,389 01/06/89 \$496,957
NASA AMES COMPUTER GRAPHICS SUPPORT FOR PARVIZ MCIN NASA - AMES RESEARCH CENTER	LOMAX HARVARD	N 06 15/03/89 \$20,000	A SAKELL 89-NA-187	\$20,000 03/15/89 \$20,000
MODEL FABRICATION AND PRELIMINARY WORK FOR PREPARATION OF WIND TUNNEL TESTS. COUNTERFORCE INCORPORATED	MECCA JOHN	N 09 20/03/89 \$200,000	SAKELL 89-NA-195	
COMPUTATIONAL FLUID DYNAMICS RESEARCH ON CYNAPICALLY ADAPTIVE MESH METHODS FOR TRANSONIC FLOWS IOWA STATE UNIV OF SCIENCE AND TECH	HINDMAN RICHARD	N 36 24/03/89 \$142,315	SAKELL 89-NA-202	
(SBIR) MODELING OF SOOT FORMATION IN LAMINAR AND PREMIXED TWO-DIMENSIONAL FLAMES ADVANCED FUEL RESEARCH INC.	SERIO MICHAEL	N 06 06/01/89 \$69,355	TISHKOFF 89-NA-075	
(SBIR) THE MODELING OF TURBULENT FLAME INSIDE A SUPERSONIC COMBUSTOR SCIENTIFIC COMPUTING ASSOCIATES INC	SHERMAN ANDREW	N 06 06/01/89 \$5,860,072	TISHKOFF 89-NA-076	
(SBIR) AN ATOMIZER FOR CORON SLURRY PROPELLANT CREARE INC. RESEARCH & DEVELOPMENT INC	ROTHE PAUL	N 06 06/01/89 \$74,604	TISHKOFF 89-NA-077	

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HOLOGRAPHIC STUDIES OF TURBULENT MULTIPHASE FLOW ARMY RESEARCH OFFICE	PANN	N 12 09/02/89 \$30,000	TISHKOFF 89-NA-137	\$30,000 30/09/88 \$30,000
FIREBALL COMBUSTION FROM LOW FUEL CONCENTRATION IN AIR ATHENEX RESEARCH ASSOCIATES	SINGER	N 12 13/02/89 \$144,856	TISHKOFF 89-NA-139	
A NUMERICAL INVESTIGATION OF THE DYNAMIC STRUCTURE OF TRANSITIONAL JET DIFFUSION FLAMES NATIONAL BUREAU OF STANDARDS	CAVIS	N 36 13/02/89 \$310,000	TISHKOFF 89-NA-140	
(SBIR) COMBUSTION DIAGNOSTIC TESTING USING COHERENCE INTERFEROMETRY PHYSICAL OPTICS CORPORATION	AYE	N 06 17/02/89 \$49,961	TISHKOFF 89-NA-147	
(SBIR) IMAGE DISSECTION CAMERA QUANTIC INDUSTRIES, INC.	MCDANIEL	N 06 17/02/89 \$34,460	TISHKOFF 89-NA-148	
(SBIR) THE FLAT FLAME BURNER: ENHANCING COMBUSTION RESEARCH MCKENNA PRODUCTS, INC.	MCKENNA	N 06 17/02/89 \$50,000	TISHKOFF 89-NA-149	
(SBIR) DEVELOPMENT OF CONCENTRATION MODULATED ABSORPTION AS A COMBUSTION DIAGNOSTIC AEROCYNE RESEARCH INC	ANNEA	N 06 17/02/89 \$65,245	TISHKOFF 89-NA-150	
(SBIR) ELECTRIC FIELD ENHANCED FLAME STABILITY AND MIXING IN NONPREMIXED COMBUSTION SYSTEMS AEROCYNE RESEARCH LABORATORIES INC	BERMAN	N 06 21/02/89 \$50,000	TISHKOFF 89-NA-151	
(SBIR) OPTICAL FREQUENCY DOMAIN SIGNAL PROCESSORS FOR LDV APPLICATIONS IN HIGH SPEED FLOWS AEROMETRICS, INC.	BACHOLD	N 06 21/02/89 \$45,969	TISHKOFF 89-NA-152	

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(SBIR) PHOTOCHEMICAL SYNTHESIS OF METASTABLE EXCITED REACTANTS FOR SUPERSONIC COMBUSTION M L ENERGIA INC	LAVIC MOSHE	N 06 21/02/89 \$50,000	TISHKOFF 89-NA-153	
(SBIR) TRIBOELECTRICITY - A NEW ALL-ELECTRONIC METHOD FOR FLOW MEASUREMENT OF JET FUELS AND OTHER INSULATING FLUIDS AUBURN INTERNATIONAL, INC.	JOHN CRAGIN	N 06 21/02/89 \$49,980	TISHKOFF 89-NA-154	
(SBIR) ENHANCED BORAN FUELS VIA CHEMICAL VAPOR DEPOSITION REFRACTORY COMPOSITES	PAQUETTE E.L.	N 06 21/02/89 \$49,167	TISHKOFF 89-NA-155	
(SBIR) STUDY OF AN INNOVATIVE ODM RAMACCELERATOR PROPULSION DEVICE ADVANCED PROJECTS RESEARCH INC	HUMPHREY J	N 06 21/02/89 \$4,989,679	TISHKOFF 89-NA-156	
(SBIR) SIMULTANEOUS MEASUREMENTS OF TEMPERATURE, DENSITY, AND VELOCITY IN GAS FLOW BY MODULATED PHOTOLUMINESCENCE WAN, LEE AND ASSOCIATES, INC.	JIAN-BANG LIU	N 06 21/02/89 \$50,000	TISHKOFF 89-NA-157	
DROP/GAS INTERACTIONS IN DENSE SPRAYS UNIV OF MICHIGAN	FAETH GERARD	R 36 02/03/89 \$345,095	A TISHKOFF 89-NA-195	\$110,371 15/07/89 \$345,095
CATCARS: TWC-DIMENSIONAL COHERENT ANTI-STOKES RAMAN SCATTERING WITH APPLICATION TO THE HYDROGEN ARCJET AEROSPACE CORPORATION	BEITING E	N 36 18/03/89 \$460,000	A TISHKOFF 89-NA-190	\$70,885 01/07/89 \$460,173
VORTEX SIMULATION OF TURBULENT COMBUSTION MASSACHUSETTS INSTITUTE OF TECHNOLOGY	GHONIEM AHMED	N 36 18/03/89 \$434,056	A TISHKOFF 89-NA-193	\$139,304 01/09/89 \$434,056
HIGH RESOLUTION MEASUREMENTS OF STRAINED DIFFUSION LAYER STRUCTURE AND EXTINCTION IN TURBULENT FLOWS UNIV OF MICHIGAN	CAHM WERNER	N 24 24/03/89 \$253,503	A TISHKOFF 89-NA-201	\$189,192 01/09/89 \$253,509

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(90 URI) INVESTIGATION ON NON-EQUILIBRIUM PHENOMENA IN FLOWS OF PARTICLES OR DROPLETS IN GASES AND VAPORS UNIV OF DELAWARE	MICHAELICES EFSTATHIOS	N 24 28/03/89 \$86,122	TISHKOFF 89-NA-204	\$133,000 15/09/89 \$270,000
INVESTIGATION OF COMBUSTION IN LARGE VORTICES CALIFORNIA INSTITUTE OF TECHNOLOGY	MARBLE FRANK	R 24 28/03/89 \$27,000	A TISHKOFF 89-NA-206	
(SBIR) DEVELOPMENT AND TESTING OF CRACK HARDENING AND REPAIR FOR CONCRETE STRUCTURES WITH COMPOSITE FIBER CEMENT SCIENCE AND TECHNOLOGY INSTITUTE INC.	THIRLMALAI K.	N 06 06/01/89 \$49,900	WU 89-NA-070	
INVESTIGATION OF THE FRACTURE HEALING MECHANISM IN ASPHALT CEMENTS USING THE THEORY OF NONLINEAR VISCOELASTICITY TEXAS A AND M RESEARCH FOUNDATION	LITTLE D	N 36 09/01/89 \$259,637	WU 89-NA-096	
(SBIR) PLASTIC STRAIN CONTROL OF TESTS IN CLOSED-LOOP SERVO TEST SYSTEMS RE/SPEC INC	SENSENY PAUL	N 06 11/01/89 \$49,933	WU 89-NA-090	
INSTABILITIES OF DAMAGE AND SURFACE DEGRADATION MECHANISMS IN BRITTLE MATERIAL STRUCTURAL SYSTEMS UNIV OF ARIZONA	FRANTZISKONIS G	N 24 01/02/89 \$145,580	A WU 89-NA-112	\$71,981 15/06/89 \$145,590
PULSE VELOCITY MEASUREMENTS FOR IMPROVED DETERMINATION OF THE QUALITY OF CONCRETE IN STRUCTURES DREXEL UNIVERSITY	POPOVICS SANDOR	N 36 01/02/89 \$384,121	WU 89-NA-117	
(SBIR) NEW FAILURE THEORY FOR PREDICTION OF ROCK FAILURE UNDER INTENSE IMPULSIVE LOADS LTD INC.	FOSTER EUGENE	N 06 06/02/89 \$64,647	WU 89-NA-120	
(SBIR) PARABOLIC STRESS-STRAIN RELATIONSHIPS FOR FINITE ELEMENT MODELING OF STRAIN SOFTENING ROCKS UTD INC.	FOSTER EUGENE	N 06 06/02/89 \$59,363	WU 89-NA-121	

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(SSIR) NONLINEAR MODELING OF CONSTITUTIVE BEHAVIOR OF CERAMICS				
INTEGRATED ENGINEERING DESIGN INC	CHEN	N 06 06/02/89 \$50,000	WU 89-NA-122	
DYNAMIC FAILURE OF ROCK				
CALIFORNIA INSTITUTE OF TECHNOLOGY	AMRENS	N 36 01/03/89 \$263,195	WU 89-NA-182	
DAMAGE EVOLUTION LAW OF CONCRETE MATERIALS				
PURDUE RESEARCH FOUNDATION	CHEN	N 24 20/03/89 \$194,974	WU 89-NA-196	
MICROCRACKING CHARACTERISTICS OF CONCRETE DISCONTINUITY POINT				
UNIV OF HOUSTON	HSU	N 24 20/03/89 \$176,113	WU 89-NA-197	

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(SBR) A HIGH TEMPERATURE HEAT CONDUCTION CALCRIMETER FOR MATERIALS TESTING TRONAC, INC.	BROWNA PHILIP	N 12 17/02/89 \$50,000	BALL 89-NC-191	
A MAGNETRON IONIZATION STAGE FOR USE IN SPUTTERED NEUTRAL MASS SPECTROMETRY WITH PART PER BILLION SENSITIVITY SANDIA SYSTEMS	MOORE CAMERON	N 12 06/01/89 \$49,999	BURGGRAPH 89-NC-105	
ULTRAFAST LASER STUDIES OF VIBRATIONAL ENERGY TRANSFER IN MOLECULES ON SINGLE CRYSTAL SURFACES NATIONAL BUREAU OF STANDARDS	CAVENAGH RICHARD	N 12 10/01/89 \$165,595	BURGGRAPH 89-NC-117	
1999 GORDON CONFERENCE ON DYNAMICS OF GAS-SURFACE INTERACTIONS GORDON RESEARCH CONFERENCES INC	AUERBACH CANIEL	N 12 18/01/89 \$8,350	BURGGRAPH 89-NC-129	
SURFACE DEPOSITION AND FORMATION CHEMISTRY OF BORON NITRIDE THIN FILMS LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	HARRACINE DAVID	N 12 19/01/89 \$200,000	BURGGRAPH 89-NC-130	
PARALLEL NANOPETER SCALE FABRICATION UNIV OF COLORADO	DOUGLAS KENNETH	N 12 27/01/89 \$348,529	BURGGRAPH 89-NC-145	
ELECTRONIC INTERACTIONS OR DIRECTED PHOTON BEAMS WITH SURFACES VANDERBILT UNIVERSITY	TOLK NORMAN	N 12 17/02/89 \$50,000	BURGGRAPH 89-NC-179	
(SBR) A NEW PROBE FOR IN SITU CHARACTERIZATION OF DIAMOND SURFACE CURING LPCVD SCHMIDT INSTRUMENTS	SCHMIDT HOWARD	N 12 17/02/89 \$50,000	BURGGRAPH 89-NC-193	
(SBR) THE NEAR SILVER X-RAYS AND ULTRAVIOLET PHOTOGRAPHIC MATERIAL FOR INDUSTRIAL AND MEDICAL RADIOGRAPHY AMERICAN STANDARDS TESTING BUREAU, INC.	EVIN GEORGE	N 12 17/02/89 \$50,000	BURGGRAPH 89-NC-184	

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(SBIR) MINI GC WITH LOW VOLUME SAM DETECTOR FOR PROCESS AND ENVIRONMENTAL DIAGNOSIS MICROSENSOR SYSTEMS, INC.	WOMTJEN	N 12 17/02/89 \$49,130	BURGGRAPH 89-NC-187	
(SBIR) AUTOMATED NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY INTERPRETATION SPECTRAL INTELLIGENCE CORP.	DAVIS	N 12 17/02/89 \$56,000	BURGGRAPH 89-NC-188	
(SBIR) A SENSITIVE TRILOGICAL DISCRIMINATOR FOR POLYMER COMPOSITES FROMATEC, INC.	PRICE	N 12 17/02/89 \$46,590	BURGGRAPH 89-NC-190	
(SBIR) CONTROLLED SYNTHESIS OF MICROLAMINATE COMPOSITES BY AN UNIQUE CVD METHOD DELTA G. CORP.	HOLZL	N 12 17/02/89 \$45,280	BURGGRAPH 89-NC-193	
MECHANISMS OF DISSOCIATIVE CHEMISORPTION ON SEMICONDUCTOR SURFACES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	STEINFELD	P 12 12/01/89 \$101,410	DAVIS 89-NC-120	
MICROSCOPIC MECHANISMS OF GAS/SURFACE INTERACTIONS CHEMICAL DYNAMICS CORPORATION	GARRETT	N 12 13/01/89 \$45,986	DAVIS 89-NC-123	
COMPUTATIONAL KINETIC DATA FOR IR SIGNATURES CHEMICAL DYNAMICS CORPORATION	SWAMINATHAN	N 12 13/01/89 \$49,997	DAVIS 89-NC-124	
THEORETICAL STUDIES OF NONLINEAR OPTICAL PROPERTIES OF CONJUGATED POLYMERS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SILBEY	N 12 23/01/89 \$122,911	DAVIS 89-NC-135	
THEORETICAL STUDIES OF SILICON AND RELATED ELEMENTS NORTH DAKOTA STATE UNIVERSITY	GORDON	N 12 23/01/89 \$131,160	DAVIS 89-NC-137	

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NONLINEAR OPTICAL PROPERTIES OF MOLECULES				
PEMPHIS STATE UNIVERSITY	KURTZ	N 12 24/01/89 \$94,488	DAVIS 89-MC-139	
SPECTROSCOPY AND DYNAMICS OF MOLECULAR AND IONIC IMPURITIES EMBEDDED IN SOLID HYDROGEN UNIV OF CHICAGO	CKA	N 12 24/01/89 \$239,969	DAVIS 89-MC-140	
VARIATIONAL TRANSITION STATE THEORY STUDIES OF GAS PHASE ION- MOLECULE AND NEUTRAL-NEUTRAL REACTIONS TEXAS TECH UNIVERSITY	CHESNAVICH	N 12 25/01/89 \$92,555	DAVIS 89-MC-141	
ROTATIONAL DESIGN, CONSTRUCTION, AND PROCESSING OF HIGH-PERFORMANC E NONLINEAR OPTICAL MATERIALS NORTHWESTERN UNIVERSITY	MARKS	N 12 27/01/89 \$224,184	DAVIS 89-MC-149	
MOLECULAR CALCULATIONS FOR NONLINEAR OPTICAL RESPONSE NORTHWESTERN UNIVERSITY	RATNER	N 12 27/01/89 \$89,502	DAVIS 89-MC-150	
CONFORMATION AND PACKING OF RIGID-ROD POLYMERS UNIV OF VIRGINIA	FARMER	N 12 31/01/89 \$110,870	DAVIS 89-MC-151	
FUNDAMENTAL STUDIES ON FREE RADICAL SURFACE INTERACTIONS SRI INTERNATIONAL	GOLDEN	N 12 31/01/89 \$125,982	DAVIS 89-MC-152	
HIGH-PERFORMANCE POLYMERIC MATERIALS: THEORY, COMPUTER SIMULATION AND EXPERIMENT DREXEL UNIVERSITY	BROSTOW	N 12 31/01/89 \$135,007	DAVIS 89-MC-153	
BASIC STUDIES CONCERNING TEMPORAL STABILITY OF SECOND HARMONIC GENERATION INTENSITY IN GLASSY POLYMERS AND THE DEVELOPMENT OF NORTHWESTERN UNIVERSITY	TORKELSON	N 12 31/01/89 \$186,353	DAVIS 89-MC-154	

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ULTRAFAST CHEMICAL DYNAMICS OF REACTIONS IN BEAMS CALIFORNIA INSTITUTE OF TECHNOLOGY	ZENWIL A	R 12 31/01/89 \$278,845	DAVIS 89-NC-156	
RESONANCE ENHANCED MULTIPHOTON IONIZATION PROCESSES IN MOLECULES AND MOLECULAR FRAGMENTS CALIFORNIA INSTITUTE OF TECHNOLOGY	MCKOY VINCENT	R 12 01/02/89 \$80,000	DAVIS 89-NC-160	
STUDIES OF ELECTRO-OPTICAL PROPERTIES OF POLYMERIC MATERIALS UNIV OF MISSOURI	WELSH WILLIAM	N 12 01/02/89 \$63,031	DAVIS 89-NC-161	
MOLECULAR NONLINEAR OPTICAL SUSCEPTIBILITIES IN CONDENSED PHASES UNIV OF ROCHESTER	MUKAMEL SHAUL	N 12 01/02/89 \$139,000	DAVIS 89-NC-163	
ATOMIC PROBES OF SURFACE STRUCTURE AND DYNAMICS UNIV OF WASHINGTON	HELLER E	N 12 02/02/89 \$100,000	DAVIS 89-NC-164	
THE RELAXATION OF VIBRATIONAL AND ELECTRONIC EXCITATIONS IN SOLVATED DYE MOLECULES UNIV OF ROCHESTER	WALMSLEY JAM	N 12 02/02/89 \$117,059	DAVIS 89-NC-165	
MICROSCOPIC MODELING OF TRIBOLOGICAL AND INTERFACIAL PHENOMENA GEORGIA TECH RESEARCH CORPORATION	LANDMAN UZI	N 12 02/02/89 \$123,161	DAVIS 89-NC-166	
AB INITIO MOLECULAR ORBITAL CALCULATIONS FOR MAGNESIUM-CONTAINING SYSTEMS ROYAL HOLLOWAY & BEDFORD NEW COLLEGE	GARDNER PETER	N 12 02/03/89 \$37,656	DAVIS 89-NC-201	
CRAY 2 CALCULATIONS ON THE STRUCTURES PRESENT IN SILICA GELS UNIV OF FLORIDA	WEST JON	N 6 22/03/89 \$2,000	A DAVIS 89-NC-213	\$2,000 01/04/89 \$2,000

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DESIGN AND EVALUATION OF HIGHLY-ELECTROPHILIC CATALYSTS FOR GLEPIN POLYMERIZATION AND OLIGOMERIZATION WEST VIRGINIA UNIVERSITY	PETERSEN	N 12 03/01/89 \$122,660	MATUSZKO 89-NC-035	
SYNTHESIS AND CHEMISTRY OF NOVEL CYCLIC FLUOROCARBONS CARTMOUTH COLLEGE	LEMAL	N 12 17/01/89 \$104,044	MATUSZKO 89-NC-125	
1989 GORDON RESEARCH CONFERENCE ON ORGANOMETALLIC CHEMISTRY GORDON RESEARCH CONFERENCES INC	BAKER	N 12 18/01/89 \$7,050	MATUSZKO 89-NC-128	
CATALYTIC ACTIVATION OF SMALL MOLECULES BY METAL CENTERS CLARKSON UNIVERSITY	VASKA	N 12 19/01/89 \$127,333	MATUSZKO 89-NC-131	
1989 GORDON RESEARCH CONFERENCE ON CORROSION MAX PLANCK INSTITUTE FUER AERONOMIE	GRABKE	N 12 19/01/89 \$3,000	MATUSZKO 89-NC-133	
ULTRAFAST SPECTROSCOPY OF ELECTRONIC STATES AND NONLINEAR OPTICS IN POLYSILANES UNIV OF UTAH	VARDENY	N 12 01/02/89 \$111,486	MATUSZKO 89-NC-159	
STRAINED RING COMPOUNDS (4.4.4.5) AND (4.4.4.4) FENESTRANES ROCKEFELLER UNIVERSITY	AGOSTA	N 12 03/02/89 \$144,428	MATUSZKO 89-NC-168	
KINETICS AND MECHANISMS OF REACTIVE INTERMEDIATES IN SILICON CHEMISTRY UNIV OF NORTH TEXAS	CONLIN	N 12 09/02/89 \$114,087	MATUSZKO 89-NC-176	
STERECONTROLLED CATALYSIS OF REACTIONS OF NITROALKANES TRINITY COLLEGE	DAVIS	N 12 15/03/89 \$21,312	MATUSZKO 89-NC-210	

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DYNAMICS AND STABILIZATION OF MATERIALS PESSERING HIGH ENERGY CONTENT COLUMBIA UNIVERSITY	TURRC	R 12 24/03/89 \$100,000	MATUSZKO 89-NC-215	
BIOTECHNOLOGY SYMPOSIUM				
AMERICAN SOCIETY FOR COMPOSITES	SONI	N 12 28/03/89 \$7,500	A MATUSZKO 89-NC-217	\$7,500 05/07/89 \$7,500
THE PREPARATION AND STUDY OF NEW NONLINEAR OPTICAL ORGANIC MATERIALS UNIV OF SOUTHERN CALIFORNIA	SINGER	N 12 29/03/89 \$76,476	MATUSZKO 89-NC-219	
(SBR) LABORATORY EXPERIMENTS TO INVESTIGATE THE ROLE OF GRAVITY WAVE/SHEAR INTERACTIONS IN GLOBAL ATMOSPHERIC CIRCULATION NORTHWEST RESEARCH ASSOCIATES, INC.	DELISI	N 12 05/01/89 \$56,148	STOBIE 89-NC-100	
(SBR) THE DEVELOPMENT OF A SLANTWISE CONVECTIVE PARAMETERIZATION SCHEME FOR OPERATIONAL NUMERICAL WEATHER PREDICTION MODELS MESOSCALE ENVIRON SIMUL & OPER INC	KARYAMPUCI	N 12 05/01/89 \$49,964	STOBIE 89-NC-101	
ASSESSMENT OF THE VIABILITY OF 3-D MECHANISTIC MODELS TO FORECAST SHORT-TERM VARIABILITIES IN THE LARGE SCALE PATTERNS OF WINDS AND ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	SCHNEIDER	N 12 09/01/89 \$49,536	STOBIE 89-NC-105	
ABSOLUTE, EXTREME-ULTRAVIOLET SOLAR SPECTRAL IRRADIANCE MONITOR (AESIM) HARVARD UNIVERSITY	PARKINSON	N 12 27/01/89 \$82,726	STOBIE 89-NC-147	
(SBR) ATMOSPHERIC SCIENCE MODELING TECHNOLOGY GULF WEATHER CORP.	SCHATZLE	N 12 17/02/89 \$44,171	STOBIE 89-NC-178	
(SBR) IMPROVED EXTENDED-RANGE ATMOSPHERIC PRECIPITATION FORECAST MODEL METROLOGIC, INC	JOHNSON	N 12 17/02/89 \$50,238	STOBIE 89-NC-130	

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(S3IR) A MESOSCALE FORECAST MODEL OF THE FUTURE ASTER, INC	CERICKSON RUSSELL	N 12 17/02/89 \$45,900	ST08IE 89-NC-182	
(S3IR) INTERFEROMETRIC CALORIMETER FOR ULTRA-SENSITIVE ABSORPTION MEASUREMENTS AT PULSED LASER WAVELENGTHS SCIENCE RESEARCH LABORATORY	FULGRUM STEPHEN	N 12 21/02/89 \$45,969	ST08IE 89-NC-195	
(S3IR) A PRACTICAL COMPUTER MODEL FOR SIMULATING LATENT HEATING AND COOLING IN THE ATMOSPHERE SCIENCE & ENGINEERING ASSOCIATES	MATTINGLY PAUL	N 12 23/02/89 \$48,062	ST08IE 89-NC-197	
(S3IR) ON THE USE OF MULTIPROCESSING COMPUTERS FOR GLOBAL NUMERICAL WEATHER PREDICTION ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	HOFFMAN R	N 12 03/03/89 \$239,100	ST08IE 89-NC-203	
ANALYSIS OF EXTREME AND FAR UV AURORA OBSERVED FROM STP78-1 UNIV OF CALIFORNIA	CHAKRABARTI SUPRIYA	N 12 07/03/89 \$51,052	ST08IE 89-NC-204	
TURBULENT THERMAL CONVECTION IN ROTATING AND STRATIFIED FLUIDS ARIZONA STATE UNIVERSITY	FERNANDO H.J.S.	N 12 08/03/89 \$26,509	ST08IE 89-NC-205	
NUMERICAL STUDY OF MESOSCALE DISTURBANCES PURDUE UNIVERSITY	SUN WEN-YIM	N 12 13/03/89 \$86,805	ST08IE 89-NC-208	
HIGH FREQUENCY RADAR STUDIES OF THE VERY HIGH LATITUDE IONOSPHERE JOHNS HOPKINS UNIVERSITY	GREENWALD RAYMOND	N 05 20/03/89 \$50,000	A ST08IE 89-NC-211	\$50,000 01/05/89 \$50,000
STUDIES OF GRAVITY WAVE/MEAN FLOW INTERACTIONS NORTHWEST RESEARCH ASSOCIATES, INC.	DELISI CONALD	N 12 28/03/89 \$81,982	ST08IE 89-NC-218	

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THERMOCHEMISTRY OF DOPING AND ANION EXCHANGE IN ELECTRICALLY CONDUCTIVE POLYMERS UNIV OF WISCONSIN	PIETEC	WILLIAM	N 12 03/01/89 \$104,795	ULRICH 89-NC-096	
(SBR) NEW LADDER POLYMERS MAXDEM INC	MARROCCO	MATTHEW	N 12 03/01/89 \$69,396	ULRICH 89-NC-097	
(SBR) AN ENTIRELY NEW SOL-GEL PROCESS FOR THE NEXT GENERATION OF HIGH PERFORMANCE CERAMICS FOSTER-MILLER INC	MAGHIGAT	ROSS	N 12 05/01/89 \$64,264	ULRICH 89-NC-098	
(SBR) HIGH COMPRESSIVE STRENGTH PBO MICROCOMPOSITE FIBERS FOSTER-MILLER INC	LUSIGNEA	RICHARD	N 12 05/01/89 \$52,878	ULRICH 89-NC-099	
PREPARATION OF A NEW CLASS OF PROCESSIBLE, INTRINSICALLY RIGID POLYMERS MAXDEM INC	TRIMMER	MARK	N 12 06/01/89 \$67,748	A ULRICH 89-NC-102	\$50,000 01/07/89 \$50,000
PREPARATION OF NOVEL CERAMIC COMPOSITES BY LOW TEMPERATURE CC-PYROLYSIS OF MIXTURES OF PRE-CERAMIC PRECURSOR POLYMERS GELTRAN INC	SIMO	CONSTANCE	N 12 06/01/89 \$50,000	ULRICH 89-NC-103	
MICROEMULSION POLYMERIZATION AS A ROUTE TO STRUCTURED POLYMERS BREWER SCIENCE INC	FLAIP	TONY	N 12 06/01/89 \$50,000	ULRICH 89-NC-104	
SYNTHESIS OF NANOSIZED ALUMINUM RITRICE TECHNICAL RESEARCH ASSOCIATES INC.	GENSSE	CHANTAL	N 12 09/01/89 \$5,500	N ULRICH 89-NC-107	
DEVELOPMENT OF RADIATION HARC, THERMOPLASTIC, TRANSPARENT, POLYORGANOSILICANES NAHOPTICS INC.	HARMEN	J	N 12 09/01/89 \$50,000	ULRICH 89-NC-110	

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CONTROLLED CHEMICAL MODIFICATION OF ARAMIC FIBER SURFACES TO ENHANCE FLAME RETARDATION BELTRAN INC	SIMO CONSTANCE	N 12 09/01/89 \$50,000	ULRICH 89-NC-111	
ULTRASTRUCTURED CARBON FIBERS FOR ULTRAHIGH TEMPERATURE COMPOSITES APPLIED SCIENCE, INC.	K BRITC	N 12 09/01/89 \$49,921	ULRICH 89-NC-112	
CVD/HYBRID FIBERS FOR STRUCTURAL, THERMAL AND ELECTRICAL APPLICATIONS APPLIED SCIENCE, INC.	MAX LAKE	N 12 09/01/89 \$60,524	ULRICH 89-NC-113	
HIGH TEMPERATURE SUPERCONDUCTIVITY WIRE AND TAPE APPLIED SCIENCE, INC.	MAX LAKE	N 12 09/01/89 \$61,492	ULRICH 89-NC-114	
LOW PRESSURE CHEMICAL VAPOR DEPOSITION OF THIN, HIGH PURITY AL2O3 FILMS BELTRAN INC	CONSTANCE SIMO	N 12 09/01/89 \$50,000	ULRICH 89-NC-115	
THE SYNTHESIS OF INCLUSION NONLINEAR OPTIC MATERIALS: ORGANIC, ORGANOMETALLIC AND POLYMER CHEMISTRY IN INORGANIC HOSTS UNIV OF CALIFORNIA	GALEN STUCKY	N 12 11/01/89 \$235,139	ULRICH 89-NC-118	
MOLECULAR METALS AS IMMUNOCONDUCTOMETRIC MICROSENSORS FOR BIODIAGNOSTIC AGENTS AND CONTROLLED SUBSTANCES UNIV OF WISCONSIN	WILLIAM .PIETRO	N 12 13/01/89 \$71,900	D ULRICH 89-NC-121	
INVESTIGATION OF DEVICE ACTIVITY IN PHTHALOCYANINATO-SILOXANE BILAYERS AND BLOCK COPOLYMERS UNIV OF WISCONSIN	WILLIAM PIETRO	N 12 13/01/89 \$72,280	ULRICH 89-NC-122	
ORDERED RIGID ROD AND LADDER POLYMERS FOR NONLINEAR OPTICS AND ELECTRONICS UNIV OF ROCHESTER	SAMSON JENEKPE	N 12 24/01/89 \$150,265	ULRICH 89-NC-133	

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FOLLING OF THIN POLYMER FILMS IN ELECTRO-OPTIC APPLICATIONS STANFORD UNIVERSITY	FULLER GERALD	N 12 27/01/89 \$65,500	ULRICH 89-NC-143	
SECOND-ORDER OPTICAL EFFECTS IN COMPOSITE MATERIALS UNIV OF ARIZONA	CALVERT PAUL	N 12 27/01/89 \$111,340	ULRICH 89-NC-144	
SYNTHESIS OF NEW ORGANOTRANSITION METAL MATERIALS TOWARD USEFUL APPLICATIONS IN NON-LINEAR OPTICAL DEVICES OXFORD UNIVERSITY	M. GREEN MALCOLM	N 12 27/01/89 \$119,198	ULRICH 89-NC-146	
EFFECTS OF PRESSURE PULSING AND THERMAL GRADIENT ON THE CHEMICAL VAPOR INFILTRATION OF FIBROUS PREFORMS PRINCETON UNIVERSITY	SUNDARESAN SANKARAN	N 12 31/01/89 \$114,105	ULRICH 89-NC-155	
EXPLORATORY DESIGN AND SYNTHESIS OF NEW NONLINEAR OPTICAL MATERIALS UNIV OF WISCONSIN	MCMAHON ROBERT	N 12 01/02/89 \$220,653	ULRICH 89-NC-157	
POLYMER-POLYMER INTERACTIONS UNIV OF TEXAS	SANCHEZ ISAAC	N 12 01/02/89 \$194,404	ULRICH 89-NC-158	
SUPPORT FOR IV INTERNATIONAL CONFERENCE ON UNCONVENTIONAL PHOTOACTIVE SOLIDS STATE UNIVERSITY OF NEW YORK	PRASAD FARAS	N 12 03/02/89 \$6,000	W ULRICH 89-NC-167	
STRUCTURAL STUDIES OF SOL-GEL GLASSES UNIV OF FLORIDA	PERRY CAROLE	N 12 06/02/89 \$30,000	W ULRICH 89-NC-170	
STRUCTURAL STUDIES OF SOL-GEL GLASSES BRUNEL UNIVERSITY	PERRY CAROLE	N 12 07/02/89 \$30,000	A ULRICH 89-NC-171	\$30,000 15/07/89 \$99,000

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DESIGN, SYNTHESIS AND CHARACTERIZATION OF ELECTROACTIVE AND ELECTROOPTIC POLYMERS DERIVED FROM MULTIFUNCTIONAL MONOMERS UNIV OF TEXAS	FERRARIS	N 12 07/02/89 \$183,200	ULRICH 89-NC-172	
MATERIALS CHEMISTRY SYMPOSIUM UNIV OF WASHINGTON	LAINO	N 12 07/02/89 \$5,000	ULRICH 89-NC-173	
ULTRASTRUCTURE PROCESSING & COMPUTER MODELING OF POLYMERS JOHNS HOPKINS UNIVERSITY	ESY	R 12 08/02/89 \$80,122	ULRICH 89-NC-174	
SBIR MICROWAVE DISCHARGE SYNTHESIS OF SEMICONDUCTING THIN FILM POLYMERS MISSION RESEARCH	HUTCHESON	N 12 09/02/89 \$49,369	ULRICH 89-NC-175	
(SBIR) MULTIFUNCTIONAL NONMETALLIC MATERIALS PROCESSING AND CHARACTERIZATION: A SUPERCONDUCTING WIRE TRACER TECHNOLOGIES, INC	BALSH	N 12 17/02/89 \$50,000	ULRICH 89-NC-181	
(SBIR) NONLINEAR CHANNEL WAVEGUIDE STRUCTURES FROM ADVANCED SOL-GEL AND E-BEAM PHYSICAL OPTICS CORPORATION	SAVANT	N 12 21/02/89 \$49,399	ULRICH 89-NC-196	
LIQUID CRYSTALLINE POLYMERS WITH NLO PROPERTIES CORNELL UNIVERSITY	CBER	N 12 28/02/89 \$118,430	ULRICH 89-NC-199	
IV INTERNATIONAL CONFERENCE ON UNCONVENTIONAL PHOTOACTIVE SOLIDS STATE UNIVERSITY OF NEW YORK	PRASAD	N 12 03/03/89 \$6,000	ULRICH 89-NC-202	
CHEMICAL PROCESSING OF OXYCARBIDE GLASSES AND GLASS-CERAMICS FOR ADVANCED COMPOSITES, COATINGS, AND FIBERS PENNSYLVANIA STATE UNIVERSITY	PANTANO	N 12 09/03/89 \$104,581	ULRICH 89-NC-206	

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THE PROCESSING SCIENCE OF ADVANCED CERAMICS MATERIALS RESEARCH SOCIETY	AKSAY ILHAN	N 12 13/03/89 \$15,800	A ULRICH 89-NC-207	\$15,100 26/04/89 \$15,100
URI CENTER FOR ADVANCED ELECTRICAL AND STRUCTURAL POLYMERS UNIV OF MASSACHUSETTS	KARASZ FRANK	N 12 22/03/89 \$2,000,000	ULRICH 89-NC-212	
THEORETICAL AND EXPERIMENTAL ANALYSIS OF PREPREGS UNIV OF DELAWARE	ADVANI SURESH	N 12 24/03/89 \$111,026	ULRICH 89-NC-214	
COLLOID AND INTERFACE CHEMISTRY ASPECTS OF CERAMICS CLARKSON UNIVERSITY	MATJEVIC EGON	N 12 24/03/89 \$190,925	ULRICH 89-NC-216	
INTELLIGENT PROCESSING OF MATERIALS EDM CORPORATION	KUSHNER ERIAN	R 12 30/03/89 \$412,899	A ULRICH 89-NC-220	\$412,899 01/05/89 \$412,899
CRYSTALLIZATION OF NANOCOMPOSITE GLASSES MADE BY THE SSG PROCESS PENNSYLVANIA STATE UNIVERSITY	ROY RUSTUM	R 12 30/03/89 \$152,633	ULRICH 89-NC-221	
A NOVEL MASS SPECTROMETER FOR DIRECT MIXTURE ANALYSIS SOUTHWEST SCIENCES, INC.	BOMSE CAVID	N 12 09/01/89 \$50,033	WILKES 89-NC-116	
ACCELERATOR-BASED SIMS HIGH ENERGY ANALYZER CHARLES EVANS & ASSOC.	BUTTRILL, JR SIGNEY	N 12 12/01/89 \$49,347	WILKES 89-NC-119	
GORDON RESEARCH CONFERENCE ON MOLTEN SALTS AND LIQUID METALS GORDON RESEARCH CONFERENCES INC	SABOLINGI MARIE-LUISE	N 12 18/01/89 \$5,000	WILKES 89-NC-127	

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STUDIES IN LEWIS ACID AND SUPERACID IONIC LIQUIDS STATE UNIVERSITY OF NEW YORK	CSTERYOUNG ROBERT	N 12 19/01/89 \$143,681	WILKES 89-NC-132	
ELECTRODEPOSITION AND CHARACTERIZATION OF TRANSPARENT CONDUCTING METAL OXIDE FILMS FOR OPTOELECTRONICS UNIV OF PITTSBURGH	SWITZER JAY	N 12 27/01/89 \$161,716	WILKES 89-NC-148	
(SBIR) A NEW, HIGH AMPLIFICATION, HEAVY-DUTY TRANSISTOR-TYPE DEVICE CRAIG DEVELOPMENT CORP.	CRAIG DWIGHT	N 12 17/02/89 \$50,000	WILKES 89-NC-177	
(SBIR) MICRO GAS CHROMATOGRAPH CHEMTECH SYSTEMS, INC.	GOPIKANTH M. L.	N 12 17/02/89 \$50,000	WILKES 89-NC-195	
(SBIR) SQUID NMR QUANTUM MAGNETICS, INC.	SAGER RONALD	N 12 17/02/89 \$56,286	WILKES 89-NC-186	
(SBIR) DEVELOPMENT OF THE ADVANCED HYDROGEN ANALYZER CRPAC, INC.	CONDON JAMES	N 12 17/02/89 \$50,000	WILKES 89-NC-189	
(SBIR) DEVELOPMENT OF A MODERATELY PRICED LIGHT ELEMENT X-RAY FLUORESCENCE ANALYZER PEAKS INSTRUMENTS, INC.	BARBI NICHOLAS	N 12 17/02/89 \$49,734	WILKES 89-NC-192	
FUNDAMENTAL STUDIES OF POLYPHOSPHAZENE AND POLYSILOXANE POLYELECTROLYTES FOR ELECTROCHEMICAL DEVICES NORTHWESTERN UNIVERSITY	SHRIVER CUMARD	N 12 14/03/89 \$120,777	WILKES 89-NC-209	
INVESTIGATION OF A WEAKNESS IN GEAR'S BACKWARDS DIFFERENTIATION METHOD FOR THE NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS MISSION RESEARCH CORP	BELANGER SUSAN	N 12 09/01/89 \$50,000	WODARCZYK 89-NC-106	

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ENHANCEMENT OF KINETIX/NPSS FOR MODELING MULTIPLY STIFF SYSTEMS MISSION RESEARCH CORP	LARKIN ROBERT	N 12 09/01/89 \$50,068	WODARCZYK 89-NC-109	
STATE-SPECIFIC ENERGY TRANSFER IN DIATOMIC RADICALS SRI INTERNATIONAL	CROSLLEY DAVID	N 12 17/01/89 \$131,646	WODARCZYK 89-NC-126	
SYNTHESIS OF NOVEL, HIGH OXIDATION STATE, ENERGETIC FLUORINE COMPOUNDS ROCKWELL INTERNATIONAL	CHRISTE K	N 12 23/01/89 \$166,667	WODARCZYK 89-NC-134	
THERMAL DISSOCIATION OF HALOGEN AZIDES ROCKWELL INTERNATIONAL	WINKER P	N 12 23/01/89 \$100,000	WODARCZYK 89-NC-136	
PHASE-COHERENT FAR-FROM-EQUILIBRIUM SPECTROSCOPIC OF CHEMICALLY REACTIVE MOLECULES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	NELSON KEITHA	N 12 27/01/89 \$190,799	WODARCZYK 89-NC-142	
DIRECT ABSORPTION LASER STUDIES OF SPECTROSCOPY, KINETICS AND STATE-TO-STATE COLLISIONAL DYNAMICS OF ATMOSPHERIC IR EMITTERS UNIV OF COLORADO	NESBITT DAVID	N 12 01/02/89 \$129,000	WODARCZYK 89-NC-162	
RADIATIVE LIFETIMES AND REACTIVITY OF VIBRATIONALLY STATE SELECTED IONS UNIV OF CALIFORNIA	BOWERS MICHAEL	N 12 03/02/89 \$162,200	WODARCZYK 89-NC-169	
DYNAMICS OF REACTIONS AND ENERGY TRANSFER PROCESSES RELEVANT TO THE DEVELOPMENT OF CHEMICALLY PUMPED VISIBLE LASER UNIVERSITAT KAISERSLAUTERN	BERGMANN KLAUS	N 12 17/02/89 \$81,250	WODARCZYK 89-NC-194	
INFRARED TRANSITION MOMENTS AND COLLISIONAL DYNAMICS OF VIBRATIONALLY EXCITED OH RADICALS UNIV OF COLORADO	NESBITT DAVID	N 06 27/02/89 \$70,435	WODARCZYK 89-NC-198	\$33,406 01/06/89 \$70,436

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TITLE
TITLE (CONT.)
INSTITUTION

(SBIR) NEW EFFICIENT SHORT WAVELENGTH HIGH POWER SPACE BASED LASER
SPACE POWER, INC.

INVESTIGATOR

JOHN

LAWLESS

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 12 28/02/89 \$534,695	A WCDARCZYK 89-NC-200	\$112,500 15/06/89 \$534,700

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NEURAL NETWORK FOR REAL-TIME MISSION OPTIMIZATION				
ELECTRO-OPTIK CORPORATION	WANG	N 06 06/01/89 \$55,949	GILES 89-NE-055	
ANALOG SPECIAL-PURPOSE NEUROCOMPUTER ARCHITECTURES USING CCD/CMOS/BICMOS BUILDING BLOCKS, Q-DOT RESEARCH PROPOSAL 1156 C-DOT INC	REED	N 06 06/01/89 \$49,979	GILES 89-NE-056	
VLSI DESIGN FOR THE PARAMETRIC AVALANCHE				
MARTINGALE RESEARCH CORPORATION	DAMES	N 06 06/01/89 \$50,708	GILES 89-NE-057	
NEW HARDWARE FOR ELECTRONIC AND HYBRID OPTOELECTRONIC NEURAL NETWORKS				
MICROTRONICS ASSOCIATES, INC.	COON	N 06 06/01/89 \$49,993	GILES 89-NE-058	
CAPACITIVE ANALOG SYNAPSES IN MNOS				
LAGUNA RESEARCH LAB	LOOS	N 06 06/01/89 \$53,374	GILES 89-NE-059	
1989 GORDON RESEARCH CONFERENCE ON MICROGRAPHY AND OPTICAL INFORMATION PROCESSING				
UNIV OF RHODE ISLAND	CRUICKSHANK	N 04 09/01/89 \$5,000	GILES 89-NE-063	
LEARNING IN NEURAL NETWORKS				
SCIENTIFIC RESEARCH ASSOCIATES, INC.	OSMAN	N 06 10/01/89 \$59,750	GILES 89-NE-065	
HIGH RESOLUTION (50,000 TIME BANDWIDTH) OUTER-PRODUCT MATRIX GENERATING DEVICE FOR NEURAL NETWORKS				
PRIMROSE CORP. OF AMERICA	SGOS	N 06 10/01/89 \$50,000	GILES 89-NE-066	
ON-CHIP LEARNING: TRAINING NEURAL NETWORKS IN UNCERTAIN ENVIRONMENTS				
INTEGRATED SYSTEMS, INC.	KOSUT	N 06 10/01/89 \$78,969	GILES 89-NE-067	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
FAST DIRECT ENCODING POSITION-SENSITIVE DETECTOR				
CHARLES EVANS & ASSOC.	NEWCOME	N 06 12/01/89 \$45,943	GILES 89-NE-092	
DYNAMIC PROPERTIES OF RECONFIGURABLE SIGNAL PROCESSING AND CONTROL SYSTEMS				
VANDERBILT UNIVERSITY	SZTIFANOVITS	N 36 24/01/89 \$382,331	GILES 89-NE-097	
NEURAL NETS FOR SPEECH RECOGNITION				
LINCOLN LABORATORY/MIT	LIPPMANN	N 24 01/02/89 \$240,000	A GILES 89-NE-101	\$85,000 01/03/89 \$240,000
APPLICATION OF EXPERT SYSTEM TECHNOLOGY TO THE VALIDATION OF MEASURED RCS DATA AT RATSCAT				
FLAM & RUSSELL INC	ADAIR	N 06 14/02/89 \$49,701	GILES 89-NE-108	
INVESTIGATION OF PARALLEL ARCHITECTURES FOR EFFICIENT IMPLEMENTATION OF A GENERAL PURPOSE NEURAL NET SIMULATOR				
NEURAL WARE	KLIMASAUASKAS	N 06 14/02/89 \$42,500	GILES 89-NE-109	
APPLICATION OF A-SI: M TO HOPFIELD-TYPE NEURAL NETWORK				
PARTICLE PHYSICS DIV. OF PLASMA PHYSIC	BLOSSER	N 06 15/02/89 \$45,354	GILES 89-NE-110	
NEUROCOMPUTER ARCHITECTURES USING ASSOCIATIVE PATTERN MEMORY, APM				
PATTERN PROCESSING TECHNOLOGIES, INC.	WERTH	N 06 15/02/89 \$46,904	GILES 89-NE-111	
ALL-PURPOSE HDTV STEREOSCOPIC HEADWORN AUDIO-VISUAL GLASSES USING COLOR LCD'S				
INVENTEK COMPANY	LEVY	N 06 15/02/89 \$50,000	GILES 89-NE-112	
BENCHMARK TESTS FOR OPTICAL COMPUTING				
ADVANCED OPTICAL SYSTEMS	HARTMAN	N 06 15/02/89 \$49,300	GILES 89-NE-113	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DEVELOPMENT OF NEW SCIENTIFIC RESEARCH INSTRUMENTATION HARMONIC LIGHTWAVES INC.	BERGER JOSEF	N 06 15/02/89 \$45,924	GILES 89-NE-114	
DIGITALLY BASED WORKSTATION FOR PERFORMING HIGHLY ACCURATE MEASUREMENTS ON LARGE ANALOG FILM IMAGERY VEXTRA CORP.	KARSPECK MILAN	N 06 15/02/89 \$49,610	GILES 89-NE-115	
MODULAR HIGH PERFORMANCE GENERAL PURPOSE HIERARCHICAL NEURAL NETWORK ARCHITECTURE GALAXY MICROSYSTEMS, INC.	FOSDICK ROBERT	N 06 15/02/89 \$45,713	GILES 89-NE-116	
A NEW ARCHITECTURE FOR NEURAL NETWORKS HORIZONS TECHNOLOGY INC	GRAY FREDERIC	N 06 15/02/89 \$49,779	GILES 89-NE-117	
A COMPACT DYNAMIC OPTICAL INTERCONNECT MODULE FOR NEURAL NETWORK MODELS MEADOWMARK OPTICS, INC.	PAUR TOM	N 06 15/02/89 \$49,358	GILES 89-NE-119	
SINGLE-CHIP NEURCOMPUTERS FOR SPEECH RECOGNITION TANNER RESEARCH, INC.	TANNER JOHN	N 06 15/02/99 \$45,867	GILES 89-NE-119	
A COMPACT, LOW COST CAMERA SYSTEM TO RECOGNIZE HUMAN FACES THE TRYMER COMPANY	SCHRCODEF JON	N 06 15/02/89 \$49,142	GILES 89-NE-120	
LIGHT WEIGHT, HIGH RESOLUTION, FLAT PROFILE ELECTRONIC IMAGE DISPLAY SYSTEM SELSYS CORPORATION	HANLIN M.	N 06 15/02/89 \$45,937	GILES 89-NE-121	
NEUROCOMPUTING WITH AN ASYNCHRONOUS RECURRENT NETWORK ALFA ENGINEERING, INC.	PEERMANN PHILIP	N 06 15/02/89 \$49,575	GILES 89-NE-122	

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DEFINITION OF A GIGA-OPS, 'INTELLIGENT MEMORY' NEURAL NETWORK SIMULATION BOARD OXFORD COMPUTER	MORTON	N 06 15/02/89 \$59,700	GILES 89-NE-123	
NEUROCOMPUTERS, NEW ARCHITECTURE AND MODELS OF COMPUTATION	ROSEBERRY	N 06 15/02/89 \$686,400	GILES 89-NE-124	
NEURAL NETWORKS FOR TREND RECOGNITION IN EXPERT SYSTEMS	BENNETT	N 06 15/02/89 \$45,155	GILES 89-NE-125	
APPLIED INFORMATION SYSTEMS, INC.	BONNIE			
NEUROCOMPUTERS, NEW ARCHITECTURES AND MODELS OF COMPUTATION	AMBRUCE	N 06 15/02/89 \$49,324	GILES 89-NE-126	
COMPUSEARCH CORPORATION	KEVIN			
TIME DIVISION COMMUNICATION IN NEURAL NETWORKS	LEE	N 06 16/02/89 \$43,680	GILES 89-NE-127	
LJ SOFTWARE	BEGEJA			
DESIGNING A NOVEL NEUROCOMPUTER - I. SIMULATION OF SYNAPTIC MECHANISMS IN A BRAIN CDIN CORPORATION	HUANG	N 06 16/02/89 \$50,000	GILES 89-NE-128	
FAULT TOLERANT DATABASE AND SOFTWARE BUILT-IN-TEST	VENKATARAMAN	N 06 16/02/89 \$47,661	GILES 89-NE-129	
COMPRESSION TELECOMMUNICATIONS CORP.	C.			
ASSOCIATIVE NEUROPROCESSORS	RYKHOVSKY	N 06 16/02/89 \$48,580	GILES 89-NE-130	
AMERICAN STANDARDS TESTING BUREAU, INC.	VAL			
GENETIC ALGORITHMS FOR NEURAL NETWORK AUTONOMOUS LEARNING	AUSTIN	N 06 16/02/89 \$45,800	GILES 89-NE-131	
AUSTIN & FAMILY	ALAN			

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TCT AMT
GUARANTEED LEARNING INADAPTIVE KNOWLEDGE PROCESSORS				
DECISION TECHNOLOGY	SELINSKY	N 06 17/02/89 \$49,816	GILES 89-NE-132	
VOLUMETRIC ARCHITECTURES FOR ARTIFICIAL NEURAL NETWORKS				
MULTIDIMENSIONAL SYSTEMS ASSOCIATES	PARKS, II	N 06 17/02/89 \$49,337	GILES 89-NE-133	
AN ALGORITHM TO CONSTRUCT FEEDFORWARD NEURAL NETWORKS FROM TRAINING DATA				
JASON ASSOCIATES CORPORATION	WONG	N 06 17/02/89 \$49,886	GILES 89-NE-134	
PULSE SUPERPOSED NEURAL NETWORKS FOR PATTERN ANALYSIS RESEARCH				
JUDITH DAYHOFF & ASSOCIATES, INC.	DAYHOFF	N 06 17/02/89 \$49,182	GILES 89-NE-135	
ASSOCIATED NEUROPROCESSORS				
AMERICAN STANDARDS TESTING BUREAU, INC.	BYKHCHVSKY	N 06 17/02/89 \$50,000	GILES 89-NE-136	
NEURCCOMPUTERS, NEW ARCHITECTURES, AND MODELS OF COMPUTATION				
KG ASSOCIATES	GANESAN	N 06 17/02/89 \$108,955	GILES 89-NE-137	
AUTOMATED MRC & MRI TEST INSTRUMENT FOR VISIBLE/NEAR IR IMAGE SENSOR PERFORMANCE EVALUATION				
PROTO TYPE DEVICES	THOMAS	N 06 17/02/89 \$50,000	GILES 89-NE-138	
NEURCCOMPUTERS, NEW ARCHITECTURES AND MODELS OF COMPUTATION				
INTELLECCAP INC.	SOMANI	N 06 17/02/89 \$50,000	GILES 89-NE-140	
COMPACT 4C OPTICAL NEURAL NETWORK ARCHITECTURE				
SPARTA. INC	PENSPAW	N 06 17/02/89 \$59,977	GILES 89-NE-141	

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ELECTRON-BEAM ADDRESSED FERRELECTRIC LIQUID CRYSTAL SPATIAL LIGHT MODULATOR CPTRON SYSTEMS, INC	FARBER IRA	N 06 17/02/89 \$59,955	GILES 89-NE-142	
SELF-LEARNING N4 HOLOGRAPHIC NEURO-OPTIC PROCESSOR PHYSICAL OPTICS CORPORATION	JANNON TOMASZ	N 06 17/02/89 \$49,978	GILES 89-NE-143	
A NEW ARCHITECTURE FOR A HIGH PERFORMANCE NEURAL NETWORK SIMULATOR PENGUIN SOFTWARE, INC	WEIGHT THOMAS	N 06 17/02/89 \$54,381	GILES 89-NE-144	
A GENERIC STRUCTURAL UNIT FOR NEUROCOMPUTERS ARCHITECTURE TSI ENTERPRISES, INC.	JAMSPIDI MOHAMMAD	N 06 17/02/89 \$50,000	GILES 89-NE-145	
APPLICATION OF QUILTED LOGIC TECHNOLOGY TO NEUROCOMPUTERS, NEW ARCHITECTURE AND MODELS OF COMPUTATION QUILTED LOGIC TECHNOLOGY COMPANY	COHN LEONARD	N 06 17/02/89 \$49,808	GILES 89-NE-146	
A NEURAL ACCELERATOR AIREX COMPUTER CORPORATION	BEAL MARK	N 06 17/02/89 \$49,969	GILES 89-NE-147	
BUS EMBEDDED MODULAR NEURAL RING ARCHITECTURES CAELLP RESEARCH CORPORATION	LIGOPENICES PANOS	N 06 21/02/89 \$45,655	GILES 89-NE-154	
COINCIDENT PULSE TECHNIQUES FOR HYBRID OPTICAL-ELECTRONIC COMPUTER SYSTEMS UNIV OF PITTSBURGH	CHIAFULLI DONALD	N 24 24/02/89 \$348,808	GILES 89-NE-199	
AGGREGATION NETWORKS FOR UNCERTAINTY MANAGEMENT UNIV OF MISSOURI	KRISHNAPURAM RAGHU	N 24 24/02/89 \$164,072	GILES 89-NE-190	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PERFORMANCE ISSUES IN LARGE DISTRIBUTED ASSOCIATIVE MEMORIES UNIV OF MINNESOTA	CHERKASSKY VALDIMIR	N 36 24/02/89 \$228,675	GILES 89-NE-191	
HIGH SPEED DATA REDUCTION UTILIZING A NEURAL NETWORK UNIV OF MINNESOTA	MILLER COUGLAS	N 36 24/02/89 \$292,599	GILES 89-NE-192	
A PROPOSAL TO: SEARCH FOR FUNDAMENTAL ADVANTAGES OF ANALOG OPTICAL PROCESSORS UNIV OF ALABAMA	CAULFIELD H.	N 36 08/03/89 \$303,415	GILES 89-NE-196	
BOOLEAN CATEGORY LEARNING: A CONNECTIONISTIC MODEL CALIFORNIA STATE UNIVERSITY	VOLPER DENNIS	N 36 13/03/89 \$418,914	GILES 89-NE-205	
A PROBLEM DATABASE FOR NEURAL NETWORK VECTOR QUANTIZATION, CODING, AND CLASSIFICATION OHIO STATE UNIV RESEARCH FOUNDATION	AMALT STANLEY	N 12 17/03/89 \$39,963	GILES 89-NE-208	
RECONFIGURABLE OPTICAL INTERCONNECTS WITH SUBSTRATE MODE PHOTOGRAPHIC OPTICAL ELEMENTS UNIV OF ARIZONA	KOSTUK R.	N 24 24/03/89 \$191,649	GILES 89-NE-210	
A SCALABLE 3-C MSI ARCHITECTURE FOR TERA-IPS NEURAL NETWORK PROCESSING UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	HWANG KAI	N 28 24/03/89 \$460,236	GILES 89-NE-211	
STUDIES OF RECONFIGURABLE OPTICAL INTERCONNECTION CONCEPTS ROCKWELL INTERNATIONAL	YEH POCHI	R 24 24/03/89 \$599,924	GILES 89-NE-212	
LUMINESCENCE AND ELECTROLUMINESCENCE PROPERTIES OF RARE EARTH COPEC GAAS OHIO UNIVERSITY	LOZYKOWSKI HENRYK	N 36 09/01/89 \$290,014	LITTON 89-NE-061	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ICES 4 4TH INTERNATIONAL CONFERENCE ON ELECTRON SPECTROSCOPY	BRUNCLE	N 04 09/01/89 \$3,000	LITTON 89-NE-064	
IBM ALMADEN RESEARCH CENTER	C			
OPTICAL SAMPLING OSCILLOSCOPE				
AERODYNE RESEARCH INC	PUTNAM	N 06 10/01/89 \$50,000	LITTON 89-NE-068	
A NEW DIAGNOSTIC FOR HIGH DENSITY AND/OR HIGH TEMPERATURE PLASMAS USING AN ELECTROSTATIC LENS COLUMBIA RESEARCH INSTRUMENTS CORP.	LEAL-QUIROS	N 06 21/02/89 \$48,350	LITTON 89-NE-149	
A HIGH SENSITIVITY AND HIGH RESOLUTION ION ENERGY ANALYZER FOR LOW TEMPERATURE (LESS THAN 1 EV) MEASUREMENTS COLUMBIA RESEARCH INSTRUMENTS CORP.	LEAL-QUIROS	N 06 21/02/89 \$47,275	LITTON 89-NE-149	
DEVELOPMENT OF NEW SCIENTIFIC RESEARCH INSTRUMENTATION				
ORCHIC ONE CORPORATION	CREWE	N 06 21/02/89 \$48,940	LITTON 89-NE-150	
DETERMINED OF THERMAL STRESS RESISTANCE OF COPPER ELECTROPLATE BY HOT RUPTURE TESTS ENK TESTING COMPANY INC	ZAKRAYSEK	N 06 21/02/89 \$49,849	LITTON 89-NE-151	
SCIENTIFIC INSTRUMENT FOR IMPROVING THE ACCURACY OF DATA MEASUREMENTS KENTRON INC.	KROLSKI	N 06 21/02/89 \$50,000	LITTON 89-NE-152	
LOW-NOISE, HIGH-CURRENT IMAGING ELECTRON MULTIPLIER DEVICE				
CPTRON SYSTEMS, INC	NICOLI	N 06 21/02/89 \$57,275	LITTON 89-NE-153	
MEASUREMENT OF THE THICKNESSES OF 10-2 TO 10 MICRON SURFACE FILMS BY ELECTRON BACKSCATTERING PHOTOMETRICS, INC.	TRAN	N 06 21/02/89 \$49,463	LITTON 89-NE-180	
	NAM			

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DEVELOPMENT OF NEW SCIENTIFIC RESEARCH INSTRUMENTATION (SUBSURFACE INSTRUMENT) TOOMAY, MATHIS & ASSOCIATES, INC.	STOVER JOHN	N 06 21/02/89 \$42,633	LITTON 89-NE-181	
MECHANICAL PROPERTIES AND CRYSTAL GROWTH STUDIES OF SEMICONDUCTOR ALLOYS STANFORD UNIVERSITY	STEVENS CAVIO	R 24 23/02/89 \$195,756	LITTON 89-NE-186	
KINETIC ASPECTS OF STRAINED LAYER EPITAXY AND DEFECT FORMATION IN MOLECULAR BEAM EPITAXIAL GROWTH ON FLUOR AND PATTERNED SUBSTRATE UNIV OF SOUTHERN CALIFORNIA	MACHUKAR ANUPAM	R 06 23/02/89 \$80,000	LITTON 89-NE-197	
PICOSECOND FAST TRANSIENT PHOTOCONDUCTIVITY: PHOTOGENERATION MECHANISMS AND TRANSPORT PROPERTIES UNIV OF CALIFORNIA	WEEGER ALAN	N 36 23/02/89 \$275,771	LITTON 89-NE-188	
A PROPOSAL FOR RESEARCH ON II-VI SEMICONDUCTOR SUPERLATTICES FURDUE RESEARCH FOUNDATION	GUNSPOR ROBERT	N 36 09/03/89 \$525,000	LITTON 89-NE-200	
THEORY OF SOLIDS: OPTICAL RESPONSE OF MATTER CITY COLLEGE - CUNY	BIRMAN JOSEPH	N 36 09/03/89 \$274,498	LITTON 89-NE-201	
CO-SPONSORSHIP OF A WORKSHOP ON THE PHYSICS AND CHEMISTRY OF MCT PALISADES INSTITUTE FOR RSCH SERVICES	GOLDFARB MARK	N 02 09/03/89 \$8,000	LITTON 89-NE-202	
IN-SITU MONITORING AND CONTROL OF THIN FILM DEPOSITION WITH SUB-ANGSTROM RESOLUTION STANFORD UNIVERSITY	PANTELL RICHARD	N 36 30/03/89 \$910,394	LITTON 89-NE-214	
OPTOELECTRONIC III-V HETEROSTRUCTURES ON SI SUBSTRATES COLORADO STATE UNIVERSITY	ROBINSON GARY	N 36 31/03/89 \$315,000	LITTON 89-NE-215	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
NEW STRAIN MEASUREMENT SYSTEMS FOR HIGH TEMPERATURE MATERIALS FOSTER-MILLER INC	BOYCE	N 06 10/01/89 \$59,946	POSENSTEIN 89-NE-059	
SYMPOSIUM ON "THE ROLE OF LEGGES IN PHASE TRANSFORMATIONS"				
CARNEGIE-MELLON UNIVERSITY	AARONSON	N 07 17/01/89 \$6,318	A ROSENSTEIN 89-NE-095	\$5,318 01/06/89 \$6,318
NIOBIUM SILICIDES FOR HIGH TEMPERATURE APPLICATIONS				
CASE WESTERN RESERVE UNIVERSITY	LEWANCOWSKI	N 36 07/02/89 \$476,213	A ROSENSTEIN 89-NE-102	\$149,963 01/06/89 \$476,213
A STUDY OF LOW TEMPERATURE DUCTILITY ENHANCEMENT IN NIZALTA				
NEW MEXICO INSTITUTE OF MINING AND TECH	INAL	N 24 13/02/89 \$193,376	D ROSENSTEIN 89-NE-105	
ANALYTICAL ELECTRON MICROSCOPE				
CASE WESTERN RESERVE UNIVERSITY	MEUER	N 12 13/02/89 \$30,000	A POSENSTEIN 89-NE-106	\$30,000 01/04/89 \$30,000
SPLIT HOPKINSON BAR FOR MATERIAL PROPERTIES TESTS AT VERY HIGH STRESS KTECH CORPORATION				
	GAFFNEY	N 06 21/02/89 \$49,992	ROSENSTEIN 89-NE-155	
DISPERSION STRENGTHENED NBAL3 INTERMETALLICS FOR ADVANCED STRUCTURAL APPLICATIONS MARKC MATERIALS INC.				
	JHA	N 06 21/02/89 \$49,750	ROSENSTEIN 89-NE-156	
GRAIN BOUNDARY CAVITATION PROCESSES IN A NIZAL ALLOY AT ELEVATED TEMPERATURES UNIV OF CALIFORNIA				
	EARTHMAN, JR	N 18 10/03/89 \$75,000	A ROSENSTEIN 89-NE-203	\$75,000 01/07/89 \$75,000
CONTROL OF NANOSTRUCTURES IN ULTRAHIGH-STRENGTH STEELS ACPTMWESTERN UNIVERSITY				
	CLSON	N 12 14/03/89 \$74,996	A ROSENSTEIN 89-NE-206	\$74,996 01/07/89 \$74,996

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MODELING OF METAL MATRIX COMPOSITE (MMC) SOLIDIFICATION				N 36		
UNIV OF TENNESSEE / SPACE INSTITUTE			MARY	28/03/89 \$545,653	ROSENSTEIN 89-NE-213	
ELECTROPHRETIC AND ELECTROLYTIC DEPOSITION OF CERAMIC PARTICLES ON POROUS SUBSTRATES	EOARD 89-0007 (GAL-CR)			N 36	A	\$68,500
TECHNION RSCH & DEVELOPMENT FOUNDATION			LEAH	09/01/89 \$194,500	SCHIDLER 89-NE-060	01/08/89 \$194,500
SPONSORSHIP SUPPORT OF THE SIXTH INTERNATIONAL CONFERENCE ON HIGH TEMPERATURES - CHEMISTRY OF INORGANIC MATERIALS				N 06		
NATIONAL INST. OF STANDARDS & TECHNOLOGY			JOHN	25/01/95 \$5,000	SCHIDLER 39-NE-098	
STRENGTH, FATIGUE AND MICROSTRUCTURE OF CERAMICS				N 36		
NATIONAL INST. OF STANDARDS & TECHNOLOGY			ERIAN	30/01/89 \$420,000	SCHIDLER 89-NE-099	
NEW PROCESSING METHODS FOR TOUGHER CERAMIC COMPOSITES				N 36		
UNIV OF DELAWARE			SURESH	14/02/89 \$426,051	SCHIDLER 89-NE-107	
THE KINETIC FORMULATION OF THE EMBRITTLEMENT-INDUCED DEGRADATION OF MECHANICAL PROPERTIES IN CERAMIC OR GLASS COMPOSITE MATERIALS				N 06		
TA COMPANY			TAE	01/03/89 \$27,399	SCHIDLER 99-NE-195	
A MECHANICAL TESTING METHODOLOGY FOR CHARACTERIZATION OF, AND DESIGN WITH, HIGH TEMPERATURE MATERIALS OF LIMITED DUCTILITY				N 36		
KENSSELAER POLYTECHNIC INSTITUTE			DAVID	08/03/89 \$300,121	SCHIDLER 89-NE-197	
RUGGED, MULTIDETECTOR OPTICAL SCATTEROMETER FOR NDE APPLICATIONS				N 06		
SANDIA SYSTEMS			ROONEY	11/01/89 \$49,567	WEINSTOCK 89-NE-091	
EXPERIMENTAL AND THEORETICAL STUDIES OF PROXIMITY EFFECT AND COUNTERMEASURES TO LOCKMODE PHENOMENA IN JOSEPHSON JUNCTIONS				N 28	A	\$140,032
POLYTECHNIC UNIVERSITY			EDWARD	13/01/89 \$241,874	WEINSTOCK 89-NE-093	15/05/89 \$241,974

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
COULOMB INTERACTIONS IN SOLIDS AND HIGH-TC SUPERCONDUCTIVITY UNIV OF UTAH	MATTIS	N 36 13/01/89 \$285,253	D WEINSTOCK 89-NE-034	\$142,563 01/06/89 \$242,543
NMR IMAGING OF ELASTOMERIC MATERIALS UNIV OF ARKANSAS	KONDROSKI	N 29 01/02/89 \$242,543	A WEINSTOCK 89-NE-100	\$142,563 01/06/89 \$242,543
DEVELOPMENT OF A NEW DETECTOR BASED ON A SUPERCONDUCTING SQUID SIEVERS RESEARCH INC	GODEC	N 06 21/02/89 \$50,000	WEINSTOCK 89-NE-157	
ANALYTICAL X-RAY TOMOGRAPHY SRS TECHNOLOGIES	SHORT	N 06 21/02/89 \$41,500	WEINSTOCK 89-NE-158	
COMPUTER AIDED MAGNETIC FLAW DETECTION IMAGERY ASSOCIATES	SCHLANG	N 06 21/02/89 \$49,935	WEINSTOCK 89-NE-159	
DEVELOPMENT OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER FOR NDE METHODS TRI-VALLEY RESEARCH	PEARSON	N 06 21/02/89 \$45,951	WEINSTOCK 89-NE-160	
MAPPING MATERIAL PROPERTIES WITH HIGH INTENSITY SOUND AT THE CRITICAL ANGLE. FAILURE ANALYSIS ASSOCIATES	HILDEBRAND	N 06 21/02/89 \$52,845	WEINSTOCK 89-NE-161	
ATOMIC RESOLUTION MEASURING MACHINE SATCON TECHNOLOGY CORPORATION	HOCKNEY	N 06 21/02/89 \$49,977	WEINSTOCK 89-NE-162	
DEVELOPMENT OF NEW SCIENTIFIC RESEARCH INSTRUMENTATION (SUPERCONDUCTIVITY INSTRUMENT) TODMAY, MATHIS & ASSOCIATES, INC.	STOVER	N 06 21/02/89 \$50,514	WEINSTOCK 89-NE-162	

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LARGE ARRAY SCUID MAGNETOMETER FOR NDE		N 06 22/02/89 \$69,053	WEINSTOCK 89-NE-193	
BIOMAGNETIC TECHNOLOGIES, INC	BLACK, JR			
KINETICS OF THE FORMATION OF HIGH TEMPERATURE SUPERCONDUCTING COMPOUNDS		N 36 23/02/89 \$455,509	D WEINSTOCK 89-NE-135	
RESEARCH FOUNDATION FOR MENTAL HYGIENE	RUCKENSTEIN			
SOURCES OF ANISOTROPY IN AMORPHOUS MAGNETIC THIN FILM		N 18 28/02/89 \$149,877	A WEINSTOCK 89-NE-194	\$149,877 01/07/89 \$149,877
UNIV OF CALIFORNIA, SAN DIEGO	HELLMAN			
DYNAMICAL PROPERTIES OF JOSEPHSON JUNCTION ARRAYS		N 24 08/03/89 \$72,000	A WEINSTOCK 89-NE-199	\$72,000 01/07/89 \$72,000
CHIO STATE UNIV RESEARCH FOUNDATION	ERNER			
LARGE-SCALE PROCESSING OF HIGH CURRENT DENSITY, FLEXIBLE THIN FILMS OF OXIDE SUPERCONDUCTORS	SAMPATH	N 36 23/03/89 \$522,792	WEINSTOCK 89-NE-209	
COLORADO STATE UNIVERSITY				
THEORY AND FABRICATION OF THREE TERMINAL QUANTUM INTERFERENCE DEVICES		N 36 09/01/89 \$557,642	WITT 89-NE-052	
UNIV OF ILLINOIS	ADESICA			
REAL-TIME CORRELATOR INSTRUMENT WORKSTATION		N 06 11/01/89 \$50,977	WITT 89-NE-070	
INDUSTRIAL QUALITY INC	GAYNOR			
A NON-CONTRACT METHOD OF ACCURATELY MEASURING CRITICAL TEMP TC, IN SUPERCONDUCTING MATERIALS: INSTRUMENT PROTOTYPE		N 06 11/01/89 \$50,000	WITT 89-NE-071	
BELTRAN INC	SIMO			
PROJECTION INTERFEROMETRY FOR AUTOMATIC SURFACE INSPECTION		N 06 11/01/89 \$49,366	WITT 89-NE-072	
AMERICAN RESEARCH CORP OF VIRGINIA	WYGANT			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NONCONTACTING PHOTOACOUSTIC INSTRUMENTATION FOR IMPROVED MATERIALS CHARACTERIZATION AND PROCESS MONITORING AMERICAN RESEARCH CORP OF VIRGINIA	SARRAFZADEH ADEL	N 06 11/01/89 \$49,904	WITT 89-NE-073	
A HIGH RESOLUTION CRT EMPLOYING A NEW THIN FILM PHOSPHOR QUANTEX CORPORATION	STORTI GEORGE	N 06 11/01/89 \$49,972	WITT 89-NE-074	
LASER-INDUCED SURFACE CHEMICAL HETEROEPICTAXY OF SEMIMAGNETIC MATERIALS AERODYNE RESEARCH INC	STINESPRING CHARTER	N 06 11/01/89 \$62,006	WITT 89-NE-075	
A SOFTWARE PACKAGE FOR THE COMPUTATIONAL MODELING OF METAL ORGANIC CHEMICAL VAPOR SCIENTIFIC COMPUTING ASSOCIATES INC	SHERMAN ANDREW	N 06 11/01/89 \$60,515	WITT 89-NE-076	
LOW TEMP (300-450 C) HETEROEPICTAXIAL GROWTH STUDIES OF GALLIUM ARSENIDE ON SILICON SUBSTRATES BY HYDROGEN RADICAL ASSISTED MOCVD UNIVERSAL ENERGY SYSTEMS INC	JAGANNATHAN G	N 06 11/01/89 \$49,633	WITT 89-NE-077	
NUMERICAL MODELING OF AHARACHY-80NM SEMICONDUCTOR HETEROSTRUCTURES SCIENTIFIC RESEARCH ASSOCIATES, INC.	CAMAY P	N 06 11/01/89 \$60,073	WITT 89-NE-078	
ATOMISTIC MODELING OF II-VI MATERIALS FOR GROWTH STUDIES CHEMICAL DYNAMICS CORPORATION	MURPHY C	N 06 11/01/89 \$49,993	WITT 89-NE-079	
EFFECTIVE-MASS SUPERLATTICE: A NEW CLASS OF FAST SWITCHING QUANTUM PHASE SPACE DEVICES SCIENTIFIC RESEARCH ASSOCIATES, INC.	CAMAY M	N 06 11/01/89 \$62,751	WITT 89-NE-080	
LASER PRODUCED HOT NEUTRAL ATOMIC BEAMS AS A NEW APPROACH TO VLSI FABRICATION TECHNOLOGY TETRA CORPORATION	MOSENY WILLIAM	N 06 11/01/89 \$50,570	WITT 89-NE-081	

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ARTIFICIAL SUPERLATTICE INASSO FOR LWIR DETECTION ELECTRO-OPTIK CORPORATION	CHAN WILLIAM	N 06 11/01/89 \$65,022	WITT 89-NE-092	
EVAL OF II-VI CRYSTALLINE MATRLS USING ELECTRON BEAM ELECTROREFLEC TANCE: OPTICAL CHAR OF IMPURITIES & SURFACE TREATMENT ON COTE CHARLES EVANS & ASSOC.	HERMAN MICHAEL	N 06 11/01/89 \$45,578	WITT 89-NE-083	
STRAIN ENGINEERED SI SUBSTRATES FOR GAAS EPITAXY UNIVERSAL ENERGY SYSTEMS INC	PRONKC PETER	N 06 11/01/89 \$49,963	WITT 89-NE-034	
DEVELOPMENT OF HING-INDIUM-CONTENT PSEUDOMORPHIC HEMTS FOR HIGH PERFORMANCE RF COMMUNICATIONS DEVICES SPIRE CORPORATION	SEKULA-MCISE PATRICIA	N 06 11/01/89 \$49,932	WITT 89-NE-095	
ION BEAM METEROEPITAXY OF SI-ON-CAF2 ELECTRO-OPTIK CORPORATION	LEE MICHAEL	N 06 11/01/89 \$65,022	WITT 89-NE-087	
METEROEPITAXY OF GAAS ON BUFFERED SI ELECTRO-OPTIK CORPORATION	CHAN WILLIAM	N 06 11/01/89 \$55,949	WITT 89-NE-088	
CUCUL: SI FOR ELECTRONIC AND PHOTONIC APPLICATIONS -- INTERFACIAL SUPERCONDUCTIVITY INTEGRATED CRYSTAL SYSTEMS, INC.	MATTES BRENTON	N 06 11/01/89 \$49,940	WITT 89-NE-039	
AN INST FOR MECH TESTING OF MATRLS AT HIGH TEPP IN REACTIVE ATMDS WHILE UNDER DESERVATION IN SCANNING ELECTRON MICROSCOPES PRINCETON SCIENTIFIC ENTERPRISE, INC.	BLAIR CAVID	N 06 11/01/89 \$49,337	WITT 89-NE-090	
CORRELATION OF MATERIALS AND PROCESS DEFECTS WITH MESFET PARAMETER FLUCTUATIONS AND CIRCUIT YIELDS STANFORD UNIVERSITY	SIGMCN THOMAS	N 35 18/01/89 \$554,037	A WITT 89-NE-096	\$125,000 15/05/89 \$854,037

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1- AND 2-DIMENSIONAL SEMICONDUCTOR SYSTEMS, A NATO WORKSHOP	CAVIES	N 06 10/02/89 \$5,000	A WITT 89-NE-103	\$5,000 15/02/89 \$5,000
EUROPEAN OFFICE OF AEROSPACE R&D				
QUANTUM I/F NCISE IN HIGH TECHNOLOGY APPLICATIONS INCLUDING ULTRASOUND STRUCTURES AND DEVICES UNIV OF MISSOURI	MANDEL	R 48 13/02/89 \$190,988	A WITT 89-NE-104	\$81,178 01/07/89 \$300,798
PSEUDOMORPHIC POWER LASER ARRAY MATERIALS				
NORTHEAST SEMICONDUCTOR INC.	WOOD	N 06 21/02/89 \$50,003	WITT 89-NE-163	
CONTACT WINDOW ETCH PROCESS FOR HETEROSTRUCTURE DEVICES				
KEYSTONE APPLIED RESEARCH, INC.	JOHN	N 06 21/02/89 \$49,967	WITT 89-NE-164	
HIGH INDIUM MBE FRACTION HFETS				
QUANTUM EPITAXIAL DESIGNS, INC.	THOMAS	N 06 21/02/89 \$56,687	WITT 89-NE-165	
THE IMPACT OF IMPROVED SUBSTRATE CRYSTALLINITY ON MBE GROWN HOMOGENEOUS LAYERS FOR IR LASERS TWO-SIX INCORPORATES	NICHOLS	N 06 21/02/89 \$70,584	WITT 89-NE-166	
A MONOLITHICALLY INTEGRATED INP TRANSISTOR-LIGHT EMITTING DIODE OPTOELECTRONIC CIRCUIT ASTEC POWER DIVISION/ASTROSYSTEMS, INC.	MCNEELY	N 06 21/02/89 \$50,000	WITT 89-NE-167	
PETERJUNCTION BIPOLAR TRANSISTOR STRUCTURES ON SILICON SUBSTRATES				
KOPIN CORPORATION	SALERNO	N 06 21/02/89 \$54,052	WITT 89-NE-168	
INTEGRATED INGAAS LED ON SILICON CIRCUITS				
ASTEC POWER DIVISION/ASTROSYSTEMS, INC.	MCNEELY	N 06 21/02/89 \$50,000	WITT 89-NE-169	

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THIN CRYSTALLINE INP ON INSULATING SUBSTRATES			N 06		
ASTRO POWER DIVISION/ASTROSYSTEMS, INC.		MCNEELY	21/02/89 \$50,000	WITT 89-NE-170	
SEMICONDUCTOR-TIMI JUNCTION ELECTRONIC DEVICE					
TIMI ALLOY COMPANY		JOHNSON	N 06 21/02/89 \$49,975	WITT 89-NE-171	
STRAINED-LAYER (PSEUDOMORPHIC) MODULATION DOPED HETEROCSTRUCTURE MATERIALS GROTH ON GAAS NORTHEAST SEMICONDUCTOR INC.		WOOD	N 06 21/02/89 \$50,284	WITT 89-NE-172	
MODULATION DOPED HETEROSTRUCTURE MATERIALS GROWTH ON INP					
NORTHEAST SEMICONDUCTOR INC.		WOOD	N 06 21/02/89 \$50,325	WITT 89-NE-173	
VLSI GAAS HETEROJUNCTION FET CIRCUITS					
VITESSE SEMICCNDUCTOR		DEYHIMY	N 06 21/02/89 \$50,651	WITT 89-NE-174	
HETEROSTRUCTURES: MATERIALS AND DEVICES					
CVD EQUIPMENT CORPORATION		CHANDRAN	N 06 21/02/89 \$49,975	WITT 89-NE-175	
NOVEL, ELEMENTAL VAPOR TRANSPORT EPITAXY (EVTE) GROWTH OF INSE					
EMCORE CORPORATION		TOMPA	N 06 21/02/89 \$49,965	WITT 89-NE-176	
IMPROVED ION SOURCE TECHNOLOGY					
SCHMIDT INSTRUMENTS		SCHMIDT	N 06 21/02/89 \$50,000	WITT 89-NE-177	
PASSIVE AND ACTIVE ELECTROOPTIC DEVICES ON POLYMER HETEROCSTRUCTURE WAVEGUIDES PHYSICAL OPTICS CORPORATION		CHEN	N 06 21/02/89 \$49,892	WITT 89-NE-179	

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SINGLE FREQUENCY LASERS USING MULTI-METERCSTRUCTURE DISTRIBUTED BRAGG REFLECTORS CRTEL CORPORATION	UNCAR	N 06 21/02/89 \$49,952	WITT 99-NE-179	
INTERFACE ROUGHNESSES OF QUANTUM WELLS PROBED BY TIME-RESOLVED PHOTOLUMINESCENCE KANSAS STATE UNIVERSITY	JIANG	N 06 23/02/89 \$271,028	WITT 89-NE-134	
FOCUSED ELECTRON BEAMS FOR SELECTED-AREA PROCESSING CRESCN GRADUATE CENTER FOR STUDY & RESCH	BELL	N 36 27/02/89 \$414,851	WITT 89-NE-193	
STUDY OF THE PHYSICS AND DEVELOPMENT OF THE TECHNOLOGY FOR RESONANT-TUNNELING DEVICES LINCOLN LABORATORY/MIT	SOLLNER	N 36 13/03/89 \$598,807	A WITT 89-NE-204	\$79,797 01/05/89 \$509,797
JSEP FELLOWSHIP PROGRAM ARMY RESEARCH OFFICE	MINK	N 12 14/03/89 \$20,555	A WITT 89-NE-207	\$20,555 01/04/89 \$45,555

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ADAPTIVE FAULT TOLERANT MAMMALIAN NEURAL NETWORK: ANALYSIS AND SIMULATION UNIV OF SOUTH FLORIDA	LINDSEY BRUCE	N 36 03/01/89 \$440,355	BERRY 89-NL-067	
STUDY OF SCN NEUROCHEMISTRY USING IN VIVO MICRODIALYSIS IN THE CONSCIOUS BRAIN: CORRELATION WITH OVERT CIRCADIAN RHYTHMS KENT STATE UNIVERSITY	GLASS DAVID	N 36 04/01/89 \$307,048	BERRY 89-NL-071	
NEURONAL COMPUTATION WITH TEMPORAL DERIVATIVES IN PULSE-CODED SYSTEMS MEMISTOR CORP	GLUCK MARK	N 06 04/01/89 \$49,705	BERRY 89-NL-072	
MULTICHANNEL CSP SPIKE DETECTOR SPECTRUM SCIENTIFIC	WIGGINS JR HARVEY	N 06 11/01/89 \$50,000	BERRY 89-NL-082	
NEURAL MODELS OF HIPPOCAMPAL FUNCTION NORTHWESTERN UNIVERSITY	SCHMAJUK NESTOR	N 36 12/01/89 \$325,795	BERRY 89-NL-084	
MECHANISMS OF LEARNING-INDUCED RECEPTIVE FIELD PLASTICITY IN AUDITORY CORTEX UNIV OF CALIFORNIA	WEINBERGER NORMAN	N 36 12/01/89 \$416,682	BERRY 89-NL-085	
NON-SYNAPTIC REGULATORY MECHANISMS FOR ACENOSINE LOS ALAMOS SCIENTIFIC LAB (OOE)	FOWLER JOHN	N 36 02/02/89 \$462,800	BERRY 89-NL-100	
MEAL TIME AS A ZEITGEBER FOR BIOLOGICAL CLOCKS FLORIDA STATE UNIVERSITY	STEPHAN FRIEDRICH	N 48 08/02/89 \$277,104	BERRY 89-NL-103	
MELATONIN, THE PINEAL GLAND AND CIRCADIAN RHYTHMS TEXAS A AND M RESEARCH FOUNDATION	CASSONE V	N 60 08/02/89 \$520,335	BERRY 89-NL-104	

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XIX INTERNATIONAL CONFERENCE ON CHRONOBIOLOGY				
INT'L SOCIETY FOR CHRONOL BIOLOGY	HAYES	N 12 09/02/89 \$12,000	A BERRY 89-NL-106	\$10,000 01/06/89 \$10,000
A SIMULATION TOOL FOR NEURAL NETWORK DYNAMICS				
JUDITH DAYHOFF & ASSOCIATES, INC.	DAYHOFF	N 06 13/02/89 \$49,782	BERRY 89-NL-109	
DEVELOPMENT OF A NEW MULTICHANNEL MICROPROBE SYSTEM FOR STUDY OF N EURAL NETWORKS AND CIRCUITS	BYLANDER	N 06 15/02/89 \$50,000	BERRY 89-NL-115	
EFFECTS OF ENVIRONMENTAL AND PHARMACOLOGICAL ENTRAINING STIMULI ON A MULTIOSCILLATOR SYSTEM OF CIRCADIAN INTEGRATION	SPIELER	N 36 15/02/89 \$261,712	BERRY 89-NL-116	
SEROTONERGIC SYSTEMS AND NON-PHOTIC ENTRAINMENT				
UNIV OF TORONTO	MROSOVSKY	N 36 15/02/89 \$319,309	BERRY 89-NL-117	
NEUROPHYSIOLOGICAL ANALYSIS OF CIRCADIAN RHYTHM ENTRAINMENT				
CALHOUSIE UNIVERSITY	RUSAK	N 48 15/02/89 \$283,528	BERRY 89-NL-118	
POTASSIUM MECHANISMS IN CIRCADIAN RHYTHMS				
UNIV OF CALIFORNIA, SAN DIEGO	KRIPKE	N 36 15/02/89 \$343,509	BERRY 89-NL-119	
HUMAN SUPRACHIASMATIC NUCLEI: NEUROANATOMICAL AND CIRCADIAN ANALY SIS				
STATE UNIVERSITY OF NEW YORK	STOPA	N 36 15/02/89 \$281,686	BERRY 89-NL-120	
REGULATION OF THE HUMAN CIRCADIAN TIMING SYSTEM				
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LYNCH	N 36 15/02/89 \$327,262	BERRY 89-NL-121	

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TITLE (CONT.) INSTITUTION DETERMINANTS AND NEUROANATOMICAL CONTROLS OF THE CIRCADIAN DRINKING RHYTHM UNIV OF ICMA	JOHNSON RALPH	N 36 15/02/89 \$336,079	BERRY 89-NL-122	
MOLECULAR BIOLOGY OF A NEURONAL CIRCADIAN OSCILLATOR MARINE BIOLOGICAL LABORATORY	STRUPWASSER FELIX	N 35 15/02/89 \$404,934	BERRY 89-NL-123	
COUPLING MECHANISM(S) OF THE BIOLOGICAL CLOCK COLUMBIA UNIVERSITY	SILVER RAE	N 36 15/02/89 \$370,200	BERRY 89-NL-124	
TEMPERATURE, THE SUPRACHIASMATIC NUCLEI AND CIRCADIAN ORGANIZATION UNIV OF CALIFORNIA	ZUCKER IRVING	N 36 15/02/89 \$444,405	BERRY 89-NL-125	
RELATIONSHIP OF MULTIPLE OSCILLATOR DESYNCHRONY AND CAFFEINE TO TIMING OF OPERANT PERFORMANCE FOLLOWING CHANGES IN LIGHT/DARK REGIMEN UNIV OF NEBRASKA	FARR LYNN	N 36 15/02/89 \$554,530	BERRY 89-NL-126	
CHRONOBIOLOGY: REGULATION OF CIRCADIAN TIMING SYSTEMS UNIV OF CALIFORNIA	MCINTY CENNIS	N 48 15/02/89 \$875,457	BERRY 89-NL-127	
EFFECTS OF ACUTE CIRCADIAN PHASE ADVANCE ON SUBSEQUENT SUSTAINED PERFORMANCE UNIV OF PENNSYLVANIA	DINGES DAVID	N 36 21/02/89 \$223,945	BERRY 89-NL-129	
LOCATION AND NATURE OF A SECONDARY CIRCADIAN PACEMAKER UNIV OF MISSOURI	GIBBS FINLEY	N 36 21/02/89 \$228,461	BERRY 89-NL-129	
PHASE-RESETTING OF THE CIRCADIAN REST-ACTIVITY CYCLE BY BENZODIAZEPINES: NEURAL MECHANISMS AND SITES OF ACTION INSTITUTE FOR CIRCADIAN PHYSIOLOGY	MOORE-EDD MARTIN	N 36 21/02/89 \$527,175	BERRY 89-NL-130	

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ORGANIZATION OF THE HUMAN CIRCADIAN SYSTEM				
STATE UNIVERSITY OF NEW YORK	MOORE	N 36 21/02/89 \$452,312	BERRY 99-NL-131	
CIRCADIAN REACTIONS AND PSYCHOLOGICAL CONSEQUENCES				
UNIV OF PITTSBURGH	MONK	N 36 21/02/89 \$440,206	BERRY 89-NL-132	
INTRACELLULAR PHYSIOLOGY OF THE RAT SUPRACHIASMATIC NUCLEUS: ELECT RICAL PROPERTIES, NEUROTRANSMISSION, AND EFFECTS OF NEURMODULATOR UNIV OF CALIFORNIA	DUDEK	N 36 21/02/89 \$502,877	BERRY 99-NL-133	
NEUROCHEMICAL BASIS OF THE BENEFICIAL EFFECTS OF CHRONOBIOLOGIC DRUG S				
FLORIDA A&M UNIVERSITY	SOLIMAN	N 36 21/02/89 \$481,079	BERRY 89-NL-134	
THE ORGANIZATION OF THE SUPRACHIASMATIC CIRCADIAN PACEMAKER				
UNIV OF ILLINOIS	GILLETTE	N 36 21/02/89 \$468,083	BERRY 89-NL-135	
SCN AND BEHAVIOR: A RECOVERY OF FUNCTION PARADIGM				
UNIV OF PENNSYLVANIA	ADLER	N 36 21/02/89 \$281,105	BERRY 99-NL-136	
CIRCADIAN RHYTHMS AND STRESS				
UNIV OF TEXAS HEALTH SCIENCE CTR	DAFNY	N 36 21/02/89 \$473,354	BERRY 89-NL-137	
PHOTIC REGULATION OF GENE EXPRESSION AND CELLULAR ACTIVITY IN THE SCN				
UNIV OF ROCHESTER	EARNEST	N 36 21/02/89 \$300,282	BERRY 99-NL-138	
THE MONTANE VCLE: A MODEL SYSTEM FOR ANALYSIS OF CIRCADIAN RHYTHM INTERACTIONS				
UNIV OF UTAH	ROSENBERG	N 36 21/02/89 \$265,182	BERRY 89-NL-139	

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MENAKER

MICHAEL

CELLULAR ANALYSIS OF A MAMMALIAN CIRCADIAN PACEMAKER SYSTEM
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BLOCK

GENE

NEURAL MECHANISMS OF PRIMATE CIRCADIAN RHYTHMS
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CHARLES

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S DURING RE-ENTRAINMENT AND THE EFFECTS OF LIGHT, NEUROTRANSMITTER
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MODULATION OF THE MAMMALIAN BIOLOGICAL CLOCK BY SCHEDULED LOCOMOTO
R ACTIVITY AND CHRONOPHARMACOLOGICAL AGENTS
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CIRCADIAN REGULATION OF BETA-1 AND BETA-2 ADRENERGIC RECEPTOR BINDING
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N 36 21/02/89 \$455,539	BERRY 89-NL-141	
N 36 21/02/89 \$407,876	BERRY 89-NL-142	
N 24 28/02/89 \$192,621	BERRY 89-NL-143	
N 36 28/02/89 \$287,735	BERRY 89-NL-144	
N 36 28/02/89 \$297,047	BERRY 89-NL-145	
N 48 28/02/89 \$698,398	BERRY 89-NL-146	
N 36 28/02/89 \$334,719	BERRY 89-NL-147	
N 36 28/02/89 \$293,300	BERRY 89-NL-148	

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PHYSIOLOGICAL MECHANISMS MEDIATING EFFECTS OF STIMULATED ACTIVITY ON CIRCADIAN CLOCK NORTHWESTERN UNIVERSITY	TUREK	N 48 28/02/89 \$535,781	BERRY 89-NL-149	
EFFECTS OF THYROIDECTOMY ON RAT ACTIVITY RHYTHMS: POTENTIAL NEURAL LOGIC AND INTERACTION WITH SEX, GONADAL HORMONES, PINEAL GLAND UNIV OF PENNSYLVANIA	CONRAD	N 24 28/02/89 \$192,463	BERRY 89-NL-150	
NEUROPHARMACOLOGY OF PHASE-SHIFTING UNIV OF PENNSYLVANIA	BAUER	N 36 28/02/89 \$259,158	BERRY 89-NL-151	
PHASE-SHIFTING EFFECT OF LIGHT AND ACTIVITY ON THE HUMAN CIRCADIAN CLOCK UNIV OF CHICAGO	VAN CAUTER	N 48 28/02/89 \$542,639	BERRY 89-NL-152	
ENTRAINMENT OF THE HUMAN CIRCADIAN SYSTEM BY BRIGHT LIGHT AND SOCIAL TIME CUES CORNELL UNIVERSITY	POLLAK	N 24 28/02/89 \$173,215	BERRY 89-NL-153	
CYTOCHEMICAL ORGANIZATION OF THE RETINO-SUPRACHIASMATIC SYSTEM YALE UNIVERSITY SCHOOL OF MEDICINE	VAN DEN POL	N 36 28/02/89 \$480,556	BERRY 89-NL-154	
PERFORMANCE MODIFICATION BY ATTENTIONAL DRUGS, THERMOREGULATORY AGENTS, AND MOLECULAR EFFECTS OF COLD STRESS AT A SINGLE BRAIN SITE UNIV OF MISSOURI	RESCH	N 36 01/03/89 \$337,259	BERRY 89-NL-160	
KINETICS OF RECYCLING OF SYNAPTIC VESICLES ROCKEFELLER UNIVERSITY	MURLAUT	N 36 13/03/89 \$356,359	BERRY 89-NL-155	
REGULATION OF CIRCADIAN RHYTHMS WITH BRIGHT LIGHT AND MELATONIN CREGG HEALTH SCIENCES UNIVERSITY	LEWY	N 36 13/03/89 \$409,797	BERRY 89-NL-167	

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SUPPRESSION OF ENDOGENOUS CIRCADIAN AMPLITUDE WITH BRIGHT LIGHT	BRIGHAM & WOMEN'S HOSPITAL	CZEISLER	N 36 13/03/89 \$297,444	BERRY 89-NL-168	
CHARLES					
THE ROLE OF PINEAL MELATONIN ON THE COUPLING OF OSCILLATORS IN THE CIRCADIAN SYSTEM OF THE RODENTS	UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO	AGUILAR-ROBLERO	N 36 13/03/89 \$163,279	BERRY 89-NL-169	
RAUL					
NEURO-ENDOCRINE MEDIATION OF PHASE-SHIFTING IN HAMSTERS	BETHANY COLLEGE	BURNS	N 36 13/03/89 \$47,508	BERRY 89-NL-170	
JOHN					
THYROID MODULATION OF CIRCADIAN SYSTEMS	HAVERFORD COLLEGE	SCHULL	N 36 13/03/89 \$328,153	BERRY 89-NL-171	
JONATHAN					
LONGITUDINAL MULTIVARIATE APPROACH TO RESETTING OF THE MULTIFREQUENCY SYSTEM	UNIV OF MINNESOTA	HALBERG	N 36 13/03/89 \$506,781	BERRY 89-NL-173	
FRANZ					
PHOSPHOPROTEIN REGULATION OF SYNAPTIC REACTIVITY	NORTHWESTERN UNIVERSITY	ROUTTENBERG	R 36 27/03/89 \$511,430	BERRY 89-NL-187	
ARYEH					
BARRIER FUNCTION OF MAMMALIAN SKIN	GORDON RESEARCH CONFERENCES INC	GUY	N 12 31/03/89 \$5,000	BERRY 89-NL-188	
RICHARD					
ATMOSPHERIC DEPOSITION OF PHENOLS AND THEIR EFFECTS ON PLANT GROWTH AND PHYSIOLOGY	BUTLER UNIVERSITY	POSTER	N 36 03/01/89 \$318,122	CERVENY 89-NL-068	
JEFFREY					
GENOTOXIC AND REPRODUCTIVE TOXICITY OF TWO CHLORINATED HYDROCARBONS, TRICHLOROETHYLENE AND METHYL CHLOROFORM	CENTRAL STATE UNIVERSITY	WASHINGTON	N 36 03/01/89 \$332,556	D CERVENY 89-NL-069	
WILLIE					

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE FATE OF A MIXTURE OF AN ORGANIC ARSENICAL (MSMA), A PHEOXYACET IC ACID (2, 4-D) AND AN ORGANOLEAD (TEL) IN THE ENVIRONMENT TULANE UNIVERSITY	ABDELGHANI A.	N 36 03/01/89 \$438,568	CERVENY 89-NL-070	
ISOLATION OF THE TYPE I PNEUMOCYTE AS AN IN VITRO METHOD TO DETECT PULMONARY TOXICANTS MASON RESEARCH INSTITUTE	SENDELBACK LOUIS	N 36 04/01/89 \$441,167	CERVENY 89-NL-073	
EARLY IDENTIFICATION OF PERFORMANCE DECREMENTS DUE TO TOXIC CHEMIC AL EXPOSURE ESSEX CORPORATION	KENNEDY ROBERT	N 06 10/01/89 \$52,669	CERVENY 89-NL-078	
NEW DIAGNOSTIC TECHNIQUE OF MNR SIGNALS BY A NOVEL CRYSTAL WITH FL AT FREQUENCY RESPONSE AMERICAN RESEARCH CORP OF VIRGINIA	NITHURA MASANOBU	N 06 10/01/89 \$49,414	CERVENY 89-NL-079	
V INTERNATIONAL CONGRESS OF TOXICOLOGY AND 2ND INA MEETING EUROPEAN OFFICE OF AERO RSCH AND DEVELOP	MCDUGAL JAMES	N 09 13/01/89 \$10,000	A CERVENY 89-NL-087	\$10,000 89/01/02 \$10,000
FREE RADICALS IN ORGANISMS EXPOSED TO FOSSIL FUELS PACIFIC NORTHWEST RESEARCH FOUNDATION	MALINS DONALD	N 36 06/02/89 \$373,185	CERVENY 89-NL-102	
NEW FLUORESCENCE METHODOLOGY FOR DETECTING DNA ADDUCTS NORTHEASTERN UNIVERSITY	GIESE ROGER	N 36 08/02/89 \$427,513	CERVENY 89-NL-105	
A BIOLOGICAL MODEL OF THE EFFECTS OF TOXIC SUBSTANCES TOPICAL TESTING INC.	MARTIN HERVE	N 06 09/02/89 \$53,500	A CERVENY 89-NL-107	\$50,000 01/07/89 \$50,000
CLINICAL PULSATING BUBBLE SURFACTOMETER ELECTRONETICS CORPORATION	GORDY STEPHEN	N 06 14/02/89 \$49,434	CERVENY 89-NL-109	

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ACQUIRED GENETIC INSTABILITIES IN BLCCO LYMPHOCYTES: THEIR ROLE AS EARLY, VERSATILE INDICATORS OF CELLULAR TOXIC INSULT IN HUMANS EX ENVIRONMENTAL GENETOX, INC.	JESUS	N 06 14/02/89 \$43,720	CERVENY 89-NL-110	
PORTABLE LIQUID FLOW METER INSTRUMENTATION				
YELLCOWSTONE ENVIRONMENTAL SCIENCE	HUNTER	N 06 14/02/89 \$50,000	CERVENY 89-NL-111	
FLASMA GLOW CLEANER/STERILIZER				
ELECTRONETICS CORPORATION	GORDY	N 06 14/02/89 \$49,311	CERVENY 89-NL-112	
DEVELOPMENT OF A COLLECTIVE PROTECTION SHELTER TEST SYSTEM				
TRACER TECHNOLOGIES	KERRIN	N 06 15/02/89 \$49,748	CERVENY 89-NL-113	
A LASER/MICROBIAL BIOASSAY THAT USES GENETICALLY MODIFIED BACTERIA TO RAPIDLY DETECT TOXICANTS				
TECHNICAL ASSESSMENTS SYSTEMS, INC.	FELKNER	N 06 15/02/89 \$45,965	CERVENY 89-NL-114	
DISTINGUISHED SPEAKER PRESENTATIONS TO AAPRL AND ASD COMMUNITIES				
AEROSPACE MEDICAL RESEARCH LABORATORY	BACHERT	N 09 11/01/89 \$3,000	DISMUKES 89-NL-093	\$3,000 11/01/89 \$3,000
COGNITIVE FACTORS AFFECTING PERCEPTION				
DECISION SCIENCE CONSORTIUM INC	TOLCCTT	N 06 18/01/89 \$55,918	FREGLY 89-NL-088	
A KNOWLEDGE STRUCTURE APPROACH TO LEARNING AND TEACHING				
DECISION SCIENCE CONSORTIUM INC	LEODC	N 06 18/01/89 \$59,389	FREGLY 89-NL-089	
A COMPUTERIZED TEST BATTERY FOR IDENTIFYING INDIVIDUAL DIFFERENCES IN COGNITIVE ABILITIES				
ESSEX CORPORATION	KENNEY	N 06 18/01/89 \$53,664	FREGLY 89-NL-090	

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NEUROCOGNITIVE RESEARCH WORKSTATION SAM TECHNOLOGY, INC.	GEVINS	N 06 19/01/89 \$58,476	FREGLY 89-NL-091	\$12,042 01/04/89 \$12,042
7TH INTERNATIONAL CONFERENCE ON BIOMAGNETISM NEW YORK UNIVERSITY	WILLIAMSON	N 06 24/01/89 \$12,042	A FREGLY 89-NL-092	\$12,042 01/04/89 \$12,042
A MODEL FOR LEARNING FROM EXAMPLES GEORGIA INSTITUTE OF TECH	CATRAMBONE	N 36 24/01/89 \$172,979	FREGLY 89-NL-093	
OPERATIONAL TOURS AEROSPACE MEDICAL DIVISION	BURTON	N 12 30/01/89 \$13,000	A FREGLY 89-NL-097	\$13,000 30/01/89 \$13,000
INITIATING THE SYLVIA BEACH LANGUAGE COMPREHENSION CONFERENCE UNIV OF OREGON	GERNSBACHER	N 06 02/02/89 \$554,800	A FREGLY 89-NL-098	\$5,548 01/07/89 \$5,548
CONFERENCE ON THE PERCEPTION OF STRUCTURE DUKE UNIVERSITY	LOCKHEAD	N 12 28/02/89 \$4,000	A FREGLY 89-NL-155	\$4,000 01/04/89 \$4,000
HOW DECISION MAKERS DETERMINE INFORMATION RELEVANCE PROGRAM DEVELOPMENT SYSTEMS INC	SCHWARTZ	N 12 01/03/89 \$49,934	FREGLY 89-NL-156	
PERFORMANCE MEASURES INVOLVING REACTION TIMES AND PERCEPTION CHANGES UNDER G-STRESS CCA ASSOCIATION	AGARWAL	N 06 01/03/89 \$49,500	FREGLY 89-NL-158	
CONFERENCE ON AFFECT AND FLASHBULB MEMORIES EMORY UNIVERSITY	WINDGRAD	N 12 08/03/89 \$9,500	A FREGLY 89-NL-152	\$9,500 01/09/89 \$9,500

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CRAY-2 TIME FOR EEG SYSTEMS LABORATORY EEG SYSTEMS LAB	GEVINS ALAN	N 06 13/03/89 \$10,000	A FREGLY 89-NL-166	\$10,000 08/03/89 \$10,000
BIAS IN REPORTING LOCATION UNIV OF CHICAGO	MUTTENLOCHER JANELLEN	N 36 16/03/89 \$346,309	FREGLY 89-NL-178	
FACTORS CONTRROLLING VOLUNTARY AND INVOLUNTARY ALLOCATION OF VISUAL ATTENTION UNIV OF KANSAS	JUOLA JAMES	N 36 21/03/89 \$184,153	FREGLY 89-NL-179	
READING: INTERACTION WITH MEMORY NORTHWESTERN UNIVERSITY	MCKOON GAIL	N 60 21/03/89 \$179,269	FREGLY 89-NL-180	
PHASE-ORDERED EVENT-RELATED RHYTHMS PRECEEDING A COGNITIVE TARGET INSTITUTE OF PHYSIOLOGY	BASAR E	N 36 24/03/89 \$252,500	FREGLY 89-NL-183	
LIFE SCIENCES BASIC RESEARCH (CALS) TOR GEOPHYSICS CORPORATION	KON JOSEPH	N 06 10/01/89 \$45,950	TANGNEY 89-NL-074	
THE PARAMETRIC AVALANCHE: A NEW COMPUTATIONAL MODEL FOR NEUROLOGI CAL PHENOMENA MARTINGALE RESEARCH CORPORATION	DAMES ROBERT	N 06 10/01/89 \$49,927	TANGNEY 89-NL-075	
DETERMINING THE RULES THAT GOVERN DISPLAY FICELITY: THE PSYCHO PHYSICS OF VECTION ESSEX CORPORATION	KENNEDY ROBERT	N 06 10/01/89 \$54,144	TANGNEY 89-NL-076	
TAXONOMY AND TRAINING REGIMES FOR PILCT DISORIENTATION ESSEX CORPORATION	KENNEDY ROBERT	N 06 10/01/89 \$50,420	TANGNEY 89-NL-077	

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HIGH SPEED MACHINE/MAN COMMUNICATION LINK				
VARITRANS INTERNATIONAL CORPORATION	LOGAN	N 05 11/01/89 \$54,160	TANGNEY 89-NL-030	
LIFE SCIENCES BASIC RESEARCH				
DIGITAL SIGNAL CORPORATION	JASLOW	N 06 11/01/89 \$50,518	TANGNEY 89-NL-081	
DEVELOPMENT OF A VISUAL TESTING TAXONOMY, HANDBOOK, AND INSTRUMENT				
ESSEX CORPORATION	KENNEDY	N 06 13/01/89 \$56,736	TANGNEY 89-NL-086	
INSTRUMENTATION FOR RECORDING EYE AND HEAD MOVEMENTS				
NORTH DAKOTA STATE UNIVERSITY	ENDERLE	N 12 24/01/89 \$120,000	TANGNEY 89-NL-094	
STUDIES OF LOCAL AND GLOBAL MOTION PERCEPTION				
UNIV OF HOUSTON	BREITMEYER	N 36 24/01/89 \$223,586	TANGNEY 89-NL-095	
MODELING STUDY OF THE COCHLEA AND THE COCHLEAR NUCLEUS				
UNIV OF CONNECTICUT HEALTH CENTER	KIM	N 36 24/01/89 \$311,170	TANGNEY 89-NL-096	
AUDITORY SPECTRO-TEMPORAL PATTERN ANALYSIS				
UNIV OF NORTH CAROLINA	HALL	R 60 02/02/89 \$642,456	TANGNEY 89-NL-099	
ESTIMATING RATE OF DECAY OF ACTIVATION IN SEPTANTIC MEMORY USING A SPEED-ACCURACY METHODOLOGY				
UNIV OF IOWA	LOHMAN	N 08 06/02/85 \$22,198	A TANGNEY 89-NL-101	\$22,198 01/07/89 \$22,198
RESEARCH CONFERENCE ON IMPLANTABLE AUDITORY PROSTHESES				
KRESGE HEARING RESEARCH INSTITUTE	PFINGST	N 06 01/03/89 \$12,100	TANGNEY 89-NL-157	

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EFFECTS ON LEARNING OF INDIVIDUAL DIFFERENCES IN INFERRING ABILITY UNIV OF GEORGIA	BRITTON BRUCE	N 24 01/03/89 \$81,069	TANGNEY 89-NL-159	
NEW SCIENTIFIC RESEARCH INSTRUMENTATION WITH SPECIAL SENSORS TO MEASURE THE IMPACT OF UNIQUE ENVIRONMENTAL SOUNDS ON HUMAN RESPONSE MEASUREMENTS RESEARCH INC.	CHOUINARD EDMOND	N 06 01/03/89 \$50,000	TANGNEY 89-NL-161	
VISUAL PERCEPTION AND COGNITION OF SMOOTHLY CURVED SURFACES BRANDEIS UNIVERSITY	TODD JAMES	N 36 13/03/89 \$301,703	TANGNEY 89-NL-163	
PSYCHOPHYSICS OF COMPLEX SOUNDS AND SPEECH STATE UNIVERSITY OF NEW YORK	PASTORE RICHARD	N 26 13/03/89 \$227,434	TANGNEY 89-NL-164	
PERCEPTION OF ACOUSTIC SOURCE CHARACTERISTICS STATE UNIVERSITY OF NEW YORK	PASTORE RICHARD	N 36 13/03/89 \$241,729	TANGNEY 89-NL-172	
COMPUTER BASED ANALYSIS AND SYNTHESIS OF FETAL FUNCTION UNIV OF CALIFORNIA	WEBBLIN FRANK	N 24 13/03/89 \$198,590	TANGNEY 89-NL-174	
RESPONSE DEVICES AND COGNITIVE TASKS CASE WESTERN RESERVE UNIVERSITY	DETTERMAN DOUGLAS	N 24 13/03/89 \$84,633	TANGNEY 89-NL-175	
SPACE CONSTANCY ON VIDEO DISPLAY TERMINALS UNIV OF CALIFORNIA	BRIDGEHAM BRUCE	N 48 13/03/89 \$429,318	TANGNEY 89-NL-176	
FLEXIBILITY IN COMPLEX LEARNING AND COGNITIVE PERFORMANCE STANFORD UNIVERSITY	SNOW RICHARD	N 12 13/03/89 \$24,914	TANGNEY 89-NL-177	

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AUDITORY ATTENTION TO RAPID SIGNAL SEQUENCES UNIV OF TEXAS	COWLING	N 36 21/03/89 \$421,914	TANGNEY 89-NL-181	
THE INTERACTION OF SENSORY AND PERCEPTUAL VARIABLES: THE SPATIAL T MPORAL, ORIENTATION, AND MOTION RESPONSE TO FIGURE AND GROUND UNIV OF DENVER	WONG EVA	N 36 21/03/89 \$662,222	TANGNEY 89-NL-182	
MODEL FOR HUMAN COLOR PERCEPTION AND VISUAL ADAPTATION UNIV OF INDIANA	GUTH S	N 36 24/03/89 \$171,008	TANGNEY 89-NL-184	
TRAINING IN METHODS IN COMPUTATIONAL NEUROSCIENCE MARINE BIOLOGICAL LABORATORY	HALVERSON HARLYN	N 12 24/03/89 \$35,000	TANGNEY 89-NL-185	
GLOBAL INFORMATION PROCESSING STRATEGIES IN TWO-DIMENSIONAL DISCRIMINATIONS YALE UNIVERSITY SCHOOL OF MEDICINE	HIRSCH JOY	R 36 24/03/89 \$857,514	TANGNEY 89-NL-186	

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APPROXIMATE EVALUATION OF RELIABILITY AND RELATED QUANTITIES VIA PERTURBATION TECHNIQUES UNIV OF CINCINNATI	WALKER BRUCE	R 24 06/01/89 \$119,506	BAROUCH 89-NM-180	
NONPARAMETRIC STATISTICAL ANALYSIS OF SOME LIFE DISTRIBUTION UNIV OF NORTH CAROLINA	TIWARI RAM	N 24 06/01/89 \$94,468	BAROUCH 89-NM-193	
TOPICS IN LARGE DEVIATION THEORY UNIV OF CINCINNATI	RYC WLOOZIMIERZ	N 24 06/01/89 \$66,657	BAROUCH 89-NM-195	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: A UNIFIED STATISTICAL METHODOLOGY FOR REASONING ABOUT IMAGES DECISION SCIENCE CONSORTIUM INC	LASKEY KATHRYN	N 06 09/01/89 \$60,012	BAROUCH 89-NM-197	
NUMERICAL SOLUTIONS OF THE BASIC INTEGRAL EQUATION OF ESTIMATION THEORY KANSAAS STATE UNIVERSITY	RAMM ALEXANDER	N 36 10/01/89 \$117,455	BAROUCH 89-NM-199	
RESEARCH ON CA-LINE GOODNESS OF FIT AND PARAMETRIC MODELLING METHODS FOR ADAPTIVE SPC NORTH CAROLINA STATE UNIVERSITY	CUESENSBERRY C.	N 36 17/01/89 \$187,761	BAROUCH 89-NM-219	\$20,000 15/03/89 \$20,000
SUPER COMPUTING IN EXPERIMENTAL DESIGN UNIV OF ILLINOIS	SACKS JEROME	N 06 24/01/89 \$20,000	BAROUCH 89-NM-235	
COMPUTERIZING BAYESIAN METHODS FOR IMPROVING SYSTEM PERFORMANCE: THE TWO-STAGE BAYESIAN PROCEDURE NORTHEASTERN UNIVERSITY	WEISING CARCLYN	N 24 24/01/89 \$179,160	BAROUCH 89-NM-237	
SEQUENTIAL METHODS IN SOFTWARE RELIABILITY AND CENSORED SURVIVAL ANALYSIS STATE UNIVERSITY OF NEW YORK	ZACKS SHELEMYANL	N 36 24/01/89 \$294,192	BAROUCH 89-NM-238	

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MULTI-DIMENSIONAL, NON-CAUSAL MODELS FOR HIGH-RESOLUTION SIGNAL & IMAGE RECONSTRUCTION UNIV OF ILLINOIS	KARALAMAGALA A.	N 36 24/01/89 \$234,418	BAROUCH 89-NM-239	
NEW DIRECTIONS IN REALIZATION AND SYNTHESIS OF TWO-DIMENSIONAL DIGITAL FILTERS BRIGHT STATE UNIVERSITY	SHAW ARNAB	N 24 24/01/89 \$329,153	BAROUCH 89-NM-241	
ARMA BISPECTRUM IDENTIFICATION OF CYCLOSTATIONARY PROCESSES EIGENTEA	MUSIC WAYNE	N 06 24/01/89 \$48,255	BAROUCH 89-NM-248	
REAL TIME ADAPTIVE IDENTIFICATION AND PRECISION OF FLUTTER SCIENTIFIC SYSTEMS INC.	MEHRA RAMAN	N 06 24/01/89 \$55,994	BAROUCH 89-NM-249	
STATE ESTIMATION USING QUADRATIC FILTERING TECHNIQUE TECHNOLOGY SYSTEMS, INC.	FARUQI FARHAN	N 06 24/01/89 \$28,318	BAROUCH 89-NM-250	
A SET-VALUED APPROACH TO MULTIPLE-TARGET TRACKING BRISHAM YOUNG UNIVERSITY	STIRLING WYNN	N 36 02/02/89 \$203,662	BAROUCH 89-NM-262	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE WAGNER DANIEL M ASSOCIATES, INC	QVERTON ROBERT	N 06 13/02/89 \$39,457	BAROUCH 89-NM-287	
FAST DIVIDE AND CONQUER METHODS FOR FINDING ALL ROOTS OF A COMPLEX POLYNOMIAL SYNAPSE COMPUTER SERVICES	BAKER HENRY	N 06 13/02/89 \$50,000	BAROUCH 89-NM-288	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE (INNOVATIVE NONLINEAR C. ITAL FILTERING) ANALYTICON CORP.	WAGNER J.	N 06 15/02/89 \$50,000	BAROUCH 89-NM-309	

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STOCHASTIC MODELS IN RELIABILITY UNIV OF CALIFORNIA	ROSS CHELDOON	N 12 21/02/89 \$67,874	BAROUCH 89-NM-324	
MINIMUM RATE ENERGY SIGNAL PROCESSING KENSSELAEER POLYTECHNIC INSTITUTE	PIMBLEY JOSEPH	N 36 03/03/89 \$91,780	BAROUCH 89-NM-340	
INFINIT. DIVISIBLE PROCESS. & THEIR NONLINEAR FUNCT.; A STUDY OF THEIR STRUCT.; STATIST. & SAMPLE PATH PROPERT. & THEIR PROB. PROB. UNIV OF TENNESSEE	RAJPLT BALRAM	R 49 03/03/89 \$341,497	BAROUCH 89-NM-344	
ROBUST FITTING AND PROJECTION PURSUIT MASSACHUSETTS INSTITUTE OF TECHNOLOGY	HUBER PETER	N 12 09/03/85 \$142,000	A BAROUCH 89-NM-351	\$70,000 01/07/89 \$216,000
ANALYSIS OF VISUAL LOSS FROM RETINAL LESIONS UNIV OF TEXAS	LONGBOOTHAM HAROLD	N 36 13/03/89 \$130,688	A BAROUCH 89-NM-356	\$25,000 01/09/89 \$81,000
LARGE DEVIATION THEORY APPLICATIONS TO PROBLEMS IN SIMULATION UNIV OF WISCONSIN	BUCKLEW JAMES	N 36 13/03/89 \$334,954	BAROUCH 89-NM-357	
MULTIVARIATE MODEL BUILDING AND MODEL IDENTIFICATION UNIV OF WISCONSIN	WAMBA GRACE	R 36 15/03/89 \$5,810,811	BAROUCH 89-NM-362	
RESEARCH ON CONFIDENCE REGIONS FOR RESTRICTED LOCATION AND SCALE PARAMETERS UNIV OF PENNSYLVANIA	PINTZ MAX	N 24 29/03/89 \$134,725	BAROUCH 89-NM-406	
REAL-TIME ADAPTIVE FEEDBACK CONTROL OF MIXING IN A PLANE SHEAR LAYER UNIV OF CALIFORNIA	BIESCH J.	N 36 03/01/89 \$185,930	A CROWLEY 89-NM-172	\$64,236 01/04/89 \$166,922

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THE MANEUVERABILITY ANALYSIS OF A ROBOTIC SYSTEM WITH COMPOSITE RIGID/FLEXIBLE STRUCTURE SCIENTIFIC RESEARCH ASSOCIATES INC	CHEN ALEXANDER	N 06 04/01/89 \$64,996	CROWLEY 89-NM-174	
RECURSIVE SYSTEM IDENTIFICATION OF LARGE STRUCTURES BOEING CO	IKEGAMI ROY	N 12 05/01/89 \$99,347	D CROWLEY 89-NM-179	
ADVANCED GENERAL PURPOSE MODEL ALGORITHMIC CONTROLLER SCIENTIFIC SYSTEMS INC.	SHAH MAHMOOD	N 06 12/01/89 \$58,900	CROWLEY 89-NM-206	
AN IMPROVED TECHNIQUE FOR THE IDENTIFICATION OF NONLINEAR DYNAMICAL SYSTEMS SCIENTIFIC SYSTEMS INC.	MEHRA RAMAN	N 06 13/01/89 \$59,999	CROWLEY 89-NM-214	
A NEW TECHNIQUE FOR SIMULTANEOUS IDENTIFICATION AND CONTROL FOR LINEAR AND NONLINEAR SYSTEMS SCIENTIFIC SYSTEMS INC.	RAMAN RAMAN	N 06 13/01/89 \$59,886	CROWLEY 89-NM-217	
A ROBUST CONTROLS DESIGN TECHNIQUE FOR ACTIVE DAMPING OF LARGE SPACE STRUCTURES CBG SYSTEMS & TECH., INC	BUTLER MARLON	N 06 17/01/89 \$47,921	CROWLEY 89-NM-221	
PERTURBATION ANALYSIS OF STOCHASTIC DISCRETE EVENT DYNAMICAL SYSTEMS UNIV OF MASSACHUSETTS	GONG WEI-90	N 24 17/01/89 \$140,218	CROWLEY 89-NM-228	
DESIGN OF ROBUST DIGITAL CONTROLLERS RICE UNIVERSITY	PEARSON J.	N 36 24/01/89 \$276,858	CROWLEY 89-NM-240	
APPLICATIONS OF ADAPTIVE FINITE ELEMENT METHODS TO PROBLEMS IN ESTIMATION AND CONTROL FOR PARTIAL DIFFERENTIAL EQUATIONS MICHIGAN STATE UNIVERSITY	LAMM PATRICIA	N 36 31/01/89 \$107,004	A CROWLEY 89-NM-261	\$32,796 15/05/89 \$69,415

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CONTROL OF LARGE-SCALE DECENTRALIZED SYSTEMS USING CONTROL THEORY AND ARTIFICIAL INTELLIGENCE NETROLOGIC, INC	GREENWOOD	N 06 08/02/89 \$54,591	CROWLEY 89-NM-276	
DEVELOP. OF DIFFERENT. GEOMETRIC APPROACH FOR THE OPTIMAL CONTROL OF REDUNDANT SYSTEMS, SUCH AS REDUNDANT ROBOTS & POINTING DEVICES SABBACH ASSOCIATES, INC.	SABBACH	N 06 08/02/89 \$50,000	CROWLEY 89-NM-279	
LARGE-SCALE AND PARALLEL ALGORITHMS FOR LINEAR ALGEBRA PROBLEMS IN CONTROL NORTHERN ILLINOIS UNIVERSITY	CATTA	N 36 14/02/89 \$258,021	CROWLEY 89-NM-292	
SIMPLE ADAPTIVE CONTROL(SAC) FOR NONLINEAR SYSTEMS LINEAR IN CONTROL DECISION TECHNOLOGY	BAR-KANA	N 06 15/02/89 \$49,816	CROWLEY 89-NM-315	
A NUMERICAL AND ANALYTIC ANALYSIS OF NONLINEAR IMPLICIT DIFFERENTIAL EQUATIONS ARISING IN CONTROL AND CIRCUIT PROBLEMS NORTH CAROLINA STATE UNIVERSITY	CAMPELL	R 24 03/03/89 \$106,003	CROWLEY 89-NM-335	
OPERATOR THEORETIC METHODS IN THE ROBUST CONTROL OF DISTRIBUTED AND NONLINEAR SYSTEMS UNIV OF MINNESOTA	TANNENBAUM	N 36 03/03/89 \$255,249	CROWLEY 89-NM-336	
MATHEMATICAL ISSUES IN THE THEORY OF NEURAL NETWORKS RUTGERS - THE STATE UNIVERSITY	SUSSMAN	N 36 03/03/89 \$299,359	CROWLEY 89-NM-337	
PARALLEL COMPUTATION OF GENERALIZED LIKELIHOOD RATIOS FOR INSTRUMENT FAILURE DETECTION GOEING COMPUTER SERVICES INC	TYLER	N 06 03/03/89 \$62,700	CROWLEY 89-NM-345	
PARALLEL IMPLEMENTATION OF AN ADAPTIVE GUIDANCE ALGORITHM GOEING COMPUTER SERVICES INC	TYLER	N 06 03/03/89 \$62,700	CROWLEY 89-NM-345	

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STUDIES ON CONTROL, NONLINEAR DYNAMICS AND MODELING PROBLEMS IN LARGE-SPACE-STRUCTURES GEORGIA INSTITUTE OF TECH	ATLURI S.	N 36 03/03/89 \$295,960	CROWLEY 89-NM-348	
PRACTICAL METHODS FOR ROBUST MULTIVARIABLE CONTROL UNIV OF SOUTHERN CALIFORNIA	SAFONOV MICHAEL	R 24 13/03/89 \$257,797	A CROWLEY 89-NM-355	\$147,861 01/08/89 \$257,797
THE DESIGN AND ANALYSIS OF ROBUST FEEDBACK SYSTEMS UNIV OF MICHIGAN	KHARGONEKAR P.	N 36 15/03/89 \$234,060	CROWLEY 89-NM-358	
NUMERICAL METHODS FOR PROBLEMS IN CONTROL OF DISTRIBUTED SYSTEMS AND IN DYNAMICAL SYSTEMS UNIV OF HOUSTON	GLOWINSKI ROLAND	N 36 20/03/89 \$403,648	CROWLEY 89-NM-371	
THE EXTENSION OF IMPORTANT SINGLE-RATE DIGITAL CONTROL SYSTEM DESIGN METHODS TO THE MULTI-RATE CASE UNIV OF VIRGINIA	MEYER DAVID	N 24 20/03/89 \$117,939	CROWLEY 89-NM-373	
THE INFERENCE OF PROBABILITY DISTRIBUTION VIA ENTROPY OPTIMIZATION WITH GEOMETRIC PROGRAMMING NORTH CAROLINA STATE UNIVERSITY	FANG SHU-CHERNG	N 36 06/02/89 \$255,669	GLASSMAN 89-NM-269	\$25,056 15/06/89 \$25,056
PARALLEL ALGORITHMS FOR CONSTRAINED NONLINEAR GLOBAL OPTIMIZATION U.S. NAVAL ACADEMY	PHILLIPS ANDREW	N 16 10/03/89 \$25,056	A GLASSMAN 89-NM-353	
EXACT AND APPROXIMATE PARALLEL DECOMPOSITION ALGORITHMS FOR STOCHASTIC LINEAR PROGRAMS WASHINGTON STATE UNIVERSITY	ARIYAWANSA K	N 24 15/03/89 \$128,316	GLASSMAN 89-NM-366	
FUNCTION IMBEDDING TECHNIQUES: A NOVEL APPROACH TO GLOBAL OPTIMIZATION PROBLEMS UNIV OF CALIFORNIA	CHANG TSU-SHUAN	N 36 29/03/89 \$312,145	GLASSMAN 89-NM-403	

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AN INTEGRATED CONCEPT FOR SCHEDULING TRANSPORTATION NETWORKS				
COMPTON AIDEC PLAN & SCHEDULE INC.	MULTY	N 06 09/01/89 \$50,000	A MOLLAND 89-NM-193	\$50,000 01/06/89 \$50,000
HIGHLY PARALLELIZABLE PRECONDITIONERS FOR CONJUGATE GRADIENT-TYPE METHODS	SHERMAN	N 06 13/01/89 \$55,806	MOLLAND 89-NM-208	
SCIENTIFIC COMPUTING ASSOCIATES INC	ANDREW			
A SYSTEM FOR THE RUN-TIME SCHEDULING AND EXECUTION OF LOOPS ON DISTRIBUTED MEMORY MACHINES	SHERMAN	N 06 13/01/89 \$61,306	MOLLAND 89-NM-209	
SCIENTIFIC COMPUTING ASSOCIATES INC	ANDREW			
BUILDING A LINDA PARALLEL PROGRAMMING ENVIRONMENT FOR UNIX LOCAL AREA NETWORKS	BERNCT	N 06 13/01/89 \$59,201	MOLLAND 89-NM-210	
SCIENTIFIC COMPUTING ASSOCIATES INC	CONALD			
ALGORITHM AND SYSTEM DEVELOPMENT OF A TRANSPUTER-BASED PARALLEL COMPUTING SYSTEM	PERALA	N 06 13/01/89 \$50,432	MOLLAND 89-NM-211	
ELECTRO MAGNETIC APPLICATIONS INC	RODNEY			
PROBLEMS IN DISCRETE GEOMETRY: CONFIGURATIONS, POLYTOPES, TRANSVERSALS	GOODMAN	N 36 24/01/89 \$251,303	MOLLAND 89-NM-242	
CITY COLLEGE - CLNY	JACOB			
CYCLES AND PATHS IN GRAPHS -- RESEARCH IN GRAPH THEORY	ZHANG	N 24 24/01/89 \$70,947	MOLLAND 89-NM-243	
WEST VIRGINIA UNIVERSITY	CUN-QUAN			
ROBUST FUZZY LOGIC CONTROL OF MULTI-INPUT/OUTPUT PROCESSIS	LEE	N 06 24/01/89 \$183,432	D MOLLAND 89-NM-247	
GRAMBLING STATE UNIVERSITY	SHUEH-JI			
CALCULUS ARCHITECTURE FOR PARTIAL DIFFERENTIAL EQUATIONS	THAMES	N 06 15/02/89 \$45,953	MOLLAND 89-NM-318	
META SOFTWARE ENGINEERING	JOSEPH			

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A SOFTWARE PACKAGES FOR SOLVING STRUCTURED SPARSE LINEAR SYSTEMS				
KUCK & ASSOCIATES, INC.	WELLS	N 06 28/02/89 \$47,358	HOLLAND 89-NP-328	
A SOFTWARE PACKAGE FOR SOLVING LARGE SYSTEMS OF NONLINEAR EQUATIONS				
KUCK & ASSOCIATES, INC.	RAJIC	N 06 28/02/89 \$48,997	HOLLAND 89-NP-329	
OPTIMIZATION ALGORITHMS FOR NEW COMPUTER ARCHITECTURES WITH APPLICATION TO ROUTING AND SCHEDULING				
SOUTHERN METHODIST UNIVERSITY	KENNINGTON	R 12 07/01/89 \$55,807	A MILLER 89-NM-130	\$55,064 01/05/89 \$55,807
EXACT FORMULAS FOR THE SCATTERING OF ELECTROMAGNETIC RADIATION FROM A CLASS OF HETEROGENEOUS, DISPERSIVE, ANISOTROPIC SCATTERERS				
A J CAMASKOS INC	CONOEN	N 06 03/01/89 \$52,200	NACHMAN 89-NM-168	
MATHEMATICAL MODELS OF COMPLEX LASER BEAM				
JOSEPH TECHNOLOGY CORPORATION	OLIKER	N 06 03/01/89 \$56,445	NACHMAN 89-NM-169	
DESKTOP, HIGH SPACE-BANDWIDTH PRODUCT, HOLOGRAPHIC FILM PRINTER TO FABRICATE COMPUTER GENERATED HOLOGRAMS				
SILHOUETTE TECHNOLOGY, INC	DWYER	N 06 04/01/89 \$50,000	NACHMAN 89-NM-177	
ANALYSIS COMPUTATION AND APPLICATION OF VARIATIONAL PRINCIPLES				
UNIV OF HOUSTON	ACHMUTY	N 36 05/01/89 \$106,132	NACHMAN 89-NP-178	
THE ASYMPTOTIC THEORY OF THE REFLECTION AND TRANSMISSION OF A PULSED ELECTROMAGNETIC BEAM FIELD				
UNIV OF VERMONT	DUGHSTON	N 12 09/01/89 \$43,081	A NACHMAN 89-NP-191	\$43,081 01/05/89 \$43,081
EXACT FORMULAS FOR THE SCATTER. OF ELECTROMAG. RADIAT. FROM A CLASS OF HETEROG., DISPERS., ANISOTROP. CYLINDERS & THEIR THERMAL				
N J CAMASKOS INC	CONOEN	N 06 09/01/89 \$52,200	NACHMAN 89-NM-195	

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SCATTERING OF ELECTROMAGNETIC RADIATION FROM CLUSTERS OF ANISOTROPIC SPHERES AND THEIR THERMAL RESPONSE TO THE RADIATION A J CAMASKOS INC	COMOCH DAVID	N 06 09/01/89 \$52,200	NACHMAN 89-NM-196	
PARABOLIC AND ELLIPTIC SYSTEMS ARISING FROM REACTION TRANSPORT PROBLEMS WITH SEPARABLE LYAPUNOV-TYPE STRUCTURE TEXAS A AND M RESEARCH FOUNDATION	MORGAN J.	N 24 10/01/89 \$36,673	D NACHMAN 89-NP-198	
PROBLEMS RELATED TO CONSERVATION LAWS-PHASE TRANSITION AND VISCOELASTICITY WEST VIRGINIA UNIVERSITY	MATTORI HARUMI	N 36 10/01/89 \$136,239	D NACHMAN 89-NM-200	
ROBOTICS AND THE MECHANICS OF FRICTION UNIV OF MARYLAND	ALEXANDER JAMES	N 36 10/01/89 \$342,510	NACHMAN 89-NM-201	
FREE BOUNDARY PROBLEMS OF MULTI-DIMENSIONAL HYPERBOLIC CONSERVATION LAWS WEST VIRGINIA UNIVERSITY	LI DENING	N 36 10/01/89 \$104,963	D NACHMAN 89-NM-202	
INTERDISCIPLINARY CONFERENCE ON CONTINUUM MECHANICS OHIO STATE UNIV RESEARCH FOUNDATION	FRIEDMAN HARVEY	N 06 10/01/89 \$20,000	D NACHMAN 89-NP-203	
ANALYTICAL APPROACHES TO SINGULAR PERTURBATION PROBLEMS OF SIGNIFICANCE TO APPLICATIONS RENSSELAER POLYTECHNIC INSTITUTE	O'MALLEY, JR. ROBERT	N 36 10/01/89 \$240,103	NACHMAN 89-NP-204	
EVALUATION OF A NEW ITERATIVE EQUATION SOLVER APPLIED RESEARCH ASSOCIATES INC	DAVISTER MICHAEL	N 06 13/01/89 \$49,473	NACHMAN 89-NM-216	
VLSI/OEIC ARCHITECTURE FOR NON-LINEAR EQUATION SOLVER IN REAL- TIME APPLICATIONS DEVICE RESEARCH INSTITUTE	WANG CHENG	N 12 17/01/89 \$1,617,500	D NACHMAN 89-NP-227	

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THE CENTER FOR NONLINEAR PHENOMENA AND MAGNETIC MATERIALS	GILL	TEPPER	N 36 18/01/89 \$395,000	A NACHMAN 89-NM-229	\$74,867 01/06/89 \$325,123
POWARC UNIVERSITY					
DEVELOPMENT OF CAREER-LONG MATHEMATICAL SKILLS FOR THE IMPLEMENTATION OF ADVANCED DEFENSED TECHNOLOGY	AGGARWAL	SHASHI	N 06 19/01/89 \$50,159	NACHMAN 89-NM-232	
KONSAL RESEARCH ASSOCIATES					
SUPERMANEUVERABILITY NONLINEAR ANALYSIS PROGRAM (SNAP)	MEHRA	RAMAN	N 06 19/01/89 \$59,806	NACHMAN 89-NM-233	
SCIENTIFIC SYSTEMS INC.					
COMBINED STRUCTURES AND CONTROLS MODELING USING ADMITTANCE METHODS	CHUN	HON	N 06 23/01/89 \$49,999	NACHMAN 89-NM-234	
PHOTON RESEARCH ASSOCIATES INC.					
TRANSITIONS AND DEFECTS IN ORDERED MATERIALS: NONLINEAR THEORY, COMPLATION AND EXPERIMENT	ERICKSEN	JERALD	N 04 24/01/89 \$70,000	A NACHMAN 89-NM-236	\$70,000 01/06/89 \$70,000
UNIV OF MINNESOTA					
MODELLING AND PREDICTION OF CLEAR AIR TURBULENCE	MUMI	MAYER	N 24 24/01/89 \$91,105	D NACHMAN 89-NM-246	
WORCESTER POLYTECHNIC INSTITUTE					
APPLICATION OF VARIABLE STRUCTURE SYSTEMS CONTROLLERS	KUMAR	ASHOK	N 36 27/01/89 \$256,549	D NACHMAN 89-NM-251	
NORTH CAROLINA A&T STATE UNIVERSITY					
EFFICIENT VARIABLE LENGTH CODES FOR DETECTING/CORRECTING ERRORS AND CODES FOR CORRECTING NON-UNIFORM ERRORS	SHARMA, PH.D	PHU DEV	N 12 31/01/89 \$73,572	D NACHMAN 89-NM-252	
XAVIER UNIVERSITY					
PRODUCTION OF ILLUSOUND BY ALTERNATE HEATING AND COOLING		T	N 36 31/01/89 \$133,505	D NACHMAN 89-NM-253	
UNIV OF ARKANSAS/PINE BLUFF	BHATTACHARYA				

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A RESEARCH PROPOSAL ON RELIABLE DISTRIBUTED COMPUTING AND PARALLEL ALGORITHMS NORFOLK STATE COLLEGE	KUNG MOU	N 24 31/01/89 \$446,555	D NACHMAN 89-NM-254	
A COMPUTER ASSISTANT FOR QUERY CONSTRUCTION FOR INFORMATION RETRIVAL BY CASUAL USERS BETHUNE-COOKMAN COLLEGE	COPELAND, PH.D RICHARD	N 36 31/01/89 \$176,366	D NACHMAN 89-NM-255	
CONSTRAINT ANALYSIS: A TOOL FOR INTEGRITY CONSTRAINT ENFORCEMENT AND SIMPLIFICATION JACKSON STATE UNIVERSITY	LIM BEE	N 12 31/01/89 \$6,282,204	D NACHMAN 89-NM-256	
WEIGHTED RANKING ANALYSIS NORTH CAROLINA CENTRAL UNIVERSITY	SALAPA IBRAHIM	N 36 31/01/89 \$345,652	D NACHMAN 89-NM-257	
DEVELOPMENT OF A RESEARCH PROGRAM FOR IMAGE PROCESSING APPLICATIONS JACKSON STATE UNIVERSITY	GUDIWADE V	N 12 31/01/89 \$61,978	D NACHMAN 89-NM-258	
ROBUST FUZZY LOGIC CONTROL OF MULTI-INPUT/MULTI-OUTPUT PROCESSES GRAMBLING STATE UNIVERSITY	LEE SHUEH	N 12 31/01/89 \$183,432	D NACHMAN 89-NM-259	
AN INTELLIGENT TUTOR FOR THE IBM SYSTEM/360: BIGBLUE JACKSON STATE UNIVERSITY	RANA SUNITA	N 12 31/01/89 \$36,399	D NACHMAN 89-NM-260	
WAVE PROPAGATION AND THE DIRECT AND INVERSE SCATTERING THEORY OF ELECTROMAGNETIC WAVES IN HIGHLY DISPERSIVE MEDIA UNIV OF MISSOURI	DEFACIO ERIAN	N 12 02/02/89 \$20,281	A NACHMAN 89-NM-268	\$20,281 01/05/89 \$20,281
NONLINEAR WAVE PROPAGATION IN A RANDOM MEDIUM UNIV OF CENTRAL FLORIDA	SHIVAMOGGI BHINSEN	N 03 06/02/89 \$26,793	NACHMAN 89-NM-271	

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PARALLEL PROCESSING FOR NONLINEAR SYSTEM SIMULATION USING A RELAXATION ALGORITHM AND CCM REPRESENTATION SABBAGH ASSOCIATES, INC.	SABBAGH L.	N 06 08/02/89 \$50,000	NACHMAN 99-NH-272	
ADAPTIVE NONLINEAR INVERSION ALGORITHMS SABBAGH ASSOCIATES, INC.	SABBAGH L.	N 06 08/02/89 \$49,973	NACHMAN 89-NH-273	
HEURISTIC AND MATHEMATICAL DESIGN OPTIMIZATION APTEK INC.	UDY JERRY	N 06 08/02/89 \$49,836	NACHMAN 89-NP-275	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE ON DEVELOP. AN EXACT CHARACTERIZATION FOR THE OUTPUT BEAM OF A SEMICONDUCTOR LASER TALANDIC RESEARCH CORP.	LANDESMAN BARBARA	N 06 08/02/89 \$63,259	NACHMAN 89-NH-279	
C-SPLINES, A NEW TOOL FOR GEOMETRIC MODELING TECHNOLOGY INTERNATIONAL, INC	LIANG ENJU	N 06 10/02/89 \$49,719	NACHMAN 89-NP-282	
DEVELOPMENT OF AN INTEGRATED ADAPTIVE FLIGHT CONTROL SYSTEM FOR HYPERVELOCITY VEHICLES TECHNOLOGY INTERNATIONAL, INC	LIANG ENJU	N 06 13/02/89 \$49,872	NACHMAN 89-NH-235	
A SELF ADAPTIVE KNOWLEDGE DRIVEN COMPUTATIONAL STRATEGY FOR NONLINEAR STRUCTURAL ANALYSIS JCROAN, APOSTAL, RITTER ASSOCIATES, INC	APOSTAL MICHAEL	N 06 13/02/89 \$49,835	NACHMAN 89-NH-286	
PERFORMANCE OF MULTIGRID SOLVERS ON ADVANCED PARALLEL ARCHITECTURE COMPLSEC, INC	GOLDSMITH CEBORAH	N 06 13/02/89 \$49,688	NACHMAN 89-NP-299	
ANALYTICAL AND NUMERICAL STUDIES OF ELECTROMAGNETIC PROPAGATION IN NONLINEAR MEDIA PRINCETON PHYSICAL SCIENCES, INC.	POTASEK MARY	N 06 14/02/89 \$50,000	NACHMAN 89-NP-294	

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KNOWLEDGE-BASED MODELING OF MECHANICAL SYSTEMS AND ROBOTIC DEVICES	THOMAS	N 06 15/02/89 \$54,274	NACHMAN 89-NP-302	
AUTOMATION SOFTWARE INNOVATION	MARK			
DEVELOP COMPUTER SOFTWARE TO HELP APPROXIMATE SOLUTIONS TO INTRACTABLE DIFFERENTIAL EQUATIONS	GREENSPUN	N 06 15/02/89 \$49,486	NACHMAN 89-NP-304	
PIECEWISE LINEAR SYSTEMS	PHILLIP			
INTEGRATED FRAMEWORK FOR SOLVING PARTIAL DIFFERENTIAL EQUATIONS USING GEOMETRIC COMPUTING	WEISSALL	N 06 15/02/89 \$50,000	NACHMAN 89-NM-305	
XOX CORP.	LEENA-MAIJA			
CONCURRENT EXECUTION OF APL PROGRAMS				
EPIC SYSTEMS GROUP	SHIM	N 06 15/02/89 \$49,741	NACHMAN 89-NM-306	
MULTI-STAGE NUCLEAR OFFENSE-DEFENSE ALLOCATION MODEL				
SRS TECHNOLOGIES, INC.	BRACKEN	N 06 15/02/89 \$50,000	NACHMAN 89-NM-307	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE				
CIGITAL FANTASIES LIMITED	DEAN	N 06 15/02/89 \$45,447	NACHMAN 89-NP-314	
INTEGRATION OF ODE'S, AN APPLICATION OF A NETWORK COMPUTATION SERVER				
CRCHARD SCIENTIFIC RESEARCH	GROSSMAN	N 06 15/02/89 \$49,688	NACHMAN 89-NM-315	
THE LIMIT OF HIGH REYNOLDS NUMBER FOR SHEAR LAYERS				
OHIO STATE UNIV RESEARCH FOUNDATION	BAKER	N 36 21/02/89 \$396,375	NACHMAN 89-NP-320	
DYNAMICS OF DETONATIONS AND SHOCK INDUCED PHASE CHANGES				
KENNELAER POLYTECHNIC INSTITUTE	ROYTEURD	N 36 21/02/89 \$176,308	NACHMAN 89-NM-322	

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TRANSITIONS AND DEFECTS IN ORDERED MATERIALS: NONLINEAR THEORY, COMPUTATION, AND EXPERIMENTS UNIV OF MINNESOTA	ERICKSEN	N 12 22/02/89 \$65,000	A NACHMAN 89-NM-325	\$227,700 01/07/89 \$877,072
ULTIMATE UNSTRUCTURED GRID METHOD (UUGM) CODE DEVELOPMENT SCIENCE APPLICATIONS INTERNATIONAL CORP.	EIDELMAN	N 30 27/02/89 \$883,072	A NACHMAN 89-NM-326	\$227,700 01/07/89 \$877,072
1989 SUMMER SEMINAR ON THE MATHEMATICS OF RANDOM MEDIA AMERICAN MATHEMATICAL SOCIETY	MAXWELL	N 12 27/02/89 \$7,500	A NACHMAN 89-NM-327	\$7,500 01/06/89 \$7,500
FINDER PROJECT CEVTECH	HOMERSON	N 18 03/03/89 \$1,987,984	A NACHMAN 89-NM-339	\$785,503 01/06/89 \$1,987,984
NETWORKS OF MULTI LIMIT CYCLE OSCILLATORS UNIV OF WISCONSIN, PLATTVILLE	SAET	N 36 06/03/89 \$98,034	NACHMAN 89-NM-349	
DEVELOPMENT OF A FUNCTIONAL EXPANSION OF NONLINEAR DISTRIBUTED- PARAMETER SYSTEMS (URI) WAYNE STATE UNIVERSITY	IBRAHIM	N 36 15/03/89 \$188,010	NACHMAN 89-NM-357	
THE MODELING OF MICROBURST AND MACROBURST PHENOMENA LEHIGH UNIVERSITY	MACPHERSON	N 24 20/03/89 \$175,656	NACHMAN 89-NM-368	
THEORY OF CHAOS AND ITS APPLICATION TO PHASE TRANSITIONS UNIV OF HOUSTON	HU	N 36 20/03/89 \$384,812	NACHMAN 89-NM-359	
DISCRETE APPLIED MATHEMATICS RUTGERS - THE STATE UNIVERSITY	PAMMER	N 36 20/03/89 \$2,127,325	NACHMAN 89-NM-370	

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ESTIMATION AND CONTROL OF STOCHASTIC DISTRIBUTED PARAMETER SYSTEMS UNIV OF TEXAS	N 36 28/03/89 \$154,086	NACHMAN 89-NP-377	
PARALLEL PROCESSING FOR SCIENTIFIC AND ENGINEERING COMPUTATIONS TUSKEGEE INSTITUTE	N 24 28/03/89 \$343,307	NACHMAN 89-NP-378	
MATHEMATICAL QUESTIONS CONCERNING OSCILLATORY AND EXCITABLE MEDIA BOSTON UNIVERSITY	N 36 28/03/89 \$428,472	NACHMAN 89-NP-379	
SHOCKING CONDITIONS AND PERTURBATION THEORY FOR DYNAMICAL SYSTEMS ICMA STATE UNIVERSITY DEPARTMENT OF MATH	N 36 28/03/89 \$348,771	NACHMAN 89-NP-380	
A NEW APPROACH TO SIMULATION OF TURBULENT FLOWS UNIV OF WISCONSIN	N 36 28/03/89 \$200,939	NACHMAN 89-NP-391	
CENTER FOR THE STUDY OF DISTRIBUTED PARAMETER SYSTEMS AND NONLINEAR WAVES UNIV OF MARYLAND BALTIMORE COUNTY	N 36 28/03/89 \$651,305	NACHMAN 89-NP-382	
COMPUTATIONAL ALGORITHMS FOR IDENTIFICATION OF DISTRIBUTED PARAMETER SYSTEMS UNIV OF ARKANSAS	N 36 28/03/89 \$213,635	NACHMAN 89-NP-393	
SOME NONLINEAR PARABOLIC AND HYPERBOLIC PROBLEMS OF COMBUSTION AND ELECTROMAGNETIC THEORY NORTHERN ILLINOIS UNIVERSITY	N 36 28/03/89 \$165,932	NACHMAN 89-NP-394	
DEVELOPMENT OF AN INTERACTIVE DECISION SUPPORT SYSTEM FOR DESIGN OF INSPECTION/TEST STRATEGIES MISSISSIPPI STATE UNIVERSITY	N 12 23/03/89 \$110,313	NACHMAN 89-NP-395	

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NONLINEAR WAVE PHENOMENA RELATED TO INTERACTIONS IN THE IONOSPHERE CLARKSON UNIVERSITY	FOKAS ATHANASSIOS	N 36 28/03/89 \$791,926	NACHMAN 89-NP-386	
MODELING, ESTIMATION, AND CONTROL OF DISTRIBUTED PARAMETER SYSTEMS UNIV OF SOUTHERN CALIFORNIA	BANKS P.	N 36 28/03/89 \$1,581,394	NACHMAN 89-NP-387	
A MATHEMATICAL FORMULATION OF UNCERTAIN INFORMATION PALL STATE UNIVERSITY	TZENG CHUN-HUNG	N 36 28/03/89 \$165,813	NACHMAN 89-NM-388	
AF UNIVERSITY RESEARCH INITIATIVE (URI) FY 1990 PROGRAM: NONLINEAR OPTICS AND TURBULENCE (BAA NUMBER 89-2) UNIV OF ARIZONA	NEWELL ALAN	N 36 28/03/89 \$1,667,729	NACHMAN 89-NM-389	
PARALLEL PROGRAMMING USING AUTOMATIC PARALLELIZATION AND STOCHASTIC METHODS FOR AUTOMATED LOAD BALANCING GEORGE MASON UNIVERSITY	WEGMAN EDWARD	N 36 28/03/89 \$541,298	NACHMAN 89-NM-390	
PARALLEL PROCESSING IN IMAGE UNDERSTANDING AND EXPERT REASONING UNIV OF SOUTH FLORIDA	HALL LAWRENCE	N 24 29/03/89 \$196,590	NACHMAN 89-NM-391	
MATHEMATICAL ANALYSIS OF A QUASI-BALANCED DYNAMICAL SYSTEM FOR TROPICAL WEATHER AND CLIMATE COLORADO STATE UNIVERSITY	STEVENS DUANE	N 36 29/03/89 \$395,359	NACHMAN 89-NM-392	
NONLINEAR DYNAMICS UNDERLYING ATMOSPHERIC PREDICTABILITY FLORIDA STATE UNIVERSITY	PFEFFER RICHARD	N 36 29/03/89 \$750,000	NACHMAN 89-NM-393	
ADAPTIVE CONTROL SYSTEMS FOR LARGE ORBITAL MANEUVER OF ELASTIC SPACECRAFT UNIV OF NEVADA	SINGH SAMJENDRA	N 24 29/03/89 \$316,717	NACHMAN 89-NP-394	

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LINEAR & NONLINEAR CONTROL PROBLEMS IN CONTINUUM MECHANICS: ANALYSIS & COMPUTATIONS UNIV OF CINCINNATI	STOJANOVIC	N 36 29/03/89 \$198,779	NACHMAN 89-NM-395	
OPERATIONAL METHODS IN CONTROL THEORY				
MICHIGAN STATE UNIVERSITY	MACCLUER	N 36 29/03/89 \$207,497	NACHMAN 89-NM-408	
THE SCATTERING OF ELECTROMAGNETIC PULSES BY DISPERSIVE MEDIA: DIRECT AND INVERSE THEORY AND COMPUTATION IOWA STATE UNIV OF SCIENCE AND TECH	CORONES	N 38 30/03/89 \$680,000	NACHMAN 89-NM-409	
RELAXATION METHODS FOR COMPRESSIBLE FLOWS				
TENNESSEE UNIV SPACE INSTITUTE	REDDY	N 36 30/03/89 \$310,000	NACHMAN 89-NM-410	
ALGORITHMIC COMPUTATION AND DESIGN				
DUKE UNIVERSITY	HAFF	N 36 30/03/89 \$264,429	NACHMAN 89-NM-411	
ANALYSIS & MODELING OF ULTRASHORT LASER PULSE PROPAGATION & MODULATIONS IN NONLINEAR OPTICAL MEDIA CITY COLLEGE - CUNY	P-O	N 36 30/03/89 \$236,276	NACHMAN 89-NM-412	
STABILIZATION AND CONTROL OF DISTRIBUTED PARAMETER SYSTEMS				
WASHINGTON UNIVERSITY	TARN	N 36 30/03/89 \$562,872	NACHMAN 89-NM-413	
ROBUST CONTROL DESIGN AND ANALYSIS FOR DISTRIBUTED PARAMETER SYSTEMS CLEMSON UNIVERSITY	FENNEL	N 38 30/03/89 \$749,327	NACHMAN 89-NM-414	
PATH PLANNING AND VISIBILITY PROBLEMS IN AIRCRAFT MISSION PLANNING				
UNIV OF TEXAS	NTAFCS	N 35 30/03/89 \$245,340	NACHMAN 89-NM-415	

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ANALYSIS OF SINGULARITY FORMATION IN HIGH REYNOLDS NUMBER VISCOUS FLOWS IOWA STATE UNIVERSITY DEPARTMENT OF MATH	ROTHMAYER ALRIC	N 36 30/03/89 \$466,405	NACHMAN 89-NM-416	
COMPLATION OF UNSTEADY INTERACTIVE BCUNCARY LAYER, SUPERSONIC WAKE FLOWS & THEIR STABILITY AT MODERATE TO HIGH MACH NUMBERS CITY COLLEGE - CUNY	ROBERT MAURI	N 36 30/03/89 \$417,684	NACHMAN 89-NM-417	
NONLINEAR RAYEIGH-TAYLOR INSTABILITIES UNIV OF NEBRASKA	DOUGLAS ROONEY	N 36 30/03/89 \$415,440	NACHMAN 89-NM-418	
A MATHEMATICAL ANALYSIS OF THE NONLINEAR DYNAMICS OF NEURAL NETWORKS CASE WESTERN RESERVE UNIVERSITY	PAO YOH-HAN	N 36 30/03/89 \$712,167	NACHMAN 89-NM-419	
STABILITY ANALYSIS OF FAULT-TOLERANT REAL-TIME MULTIPROCESSOR SYSTEMS UNIV OF NEBRASKA	DEGUN JITENDER	N 36 30/03/89 \$239,877	NACHMAN 89-NM-420	
SYSTEMATICS AND QUANTITATIVE DESIGN OF ADAPTIVE CONTROLLERS ARIZONA STATE UNIVERSITY	TSAKALIS KONSTANTINOS	N 36 30/03/89 \$300,723	NACHMAN 89-NM-421	
SPATIO-TEMPORAL COMPLEXITY AND LARGE SCALE STRUCTURE IN PROBLEMS OF CONTINUUM MECHANICS ARIZONA STATE UNIVERSITY	NICOLAENKO BASIL	N 36 30/03/89 \$740,177	NACHMAN 89-NM-422	
APPLICATIONS OF ADAPTIVE FINITE ELEMENT METHODS TO PROBLEMS IN ESTIMATION AND CONTROL FOR PARTIAL DIFFERENTIAL EQUATIONS MICHIGAN STATE UNIVERSITY	LAPH PATRICIA	N 36 30/03/89 \$105,141	NACHMAN 89-NM-423	
NEW APPROACHES TO PARALLEL IMAGE PROCESSING IN 2-D MESHEs UNIV OF PITTSBURGH	MALL RICHARD	N 36 30/03/89 \$561,128	NACHMAN 89-NM-424	

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STUDY OF THE ANALYTIC THEORY OF CONTINUED FRACTIONS AND TIME EVOLUTION IN MANY-BODY SYSTEMS UNIV OF GEORGIA	LEE	N 36 30/03/89 \$283,198	NACHMAN 89-NM-425	
LARGE-SCALE AND PARALLEL ALGORITHMS FOR LINEAR ALGEBRA PROBLEMS IN CONTROL NORTHERN ILLINOIS UNIVERSITY	CAITTA	N 36 30/03/89 \$388,507	NACHMAN 89-NM-426	
ESTIMATING THE PEAK FREQUENCY OF A MULTI-DIMENSIONAL AUTOREGRESSIVE PROCESS OF UNKNOWN ORDER RICE UNIVERSITY	ENSOR	N 36 30/03/89 \$245,430	NACHMAN 89-NM-427	
MATHEMATICAL STUDIES OF HYPERSONIC FLOW, THERMAL AND STRUCTURAL INTERACTION PHENOMENA UNIV OF VIRGINIA	HOUSTON	N 36 30/03/89 \$720,392	NACHMAN 89-NM-428	
VECTORIZED PERTURBED FUNCTIONAL ITERATIVE SCHEME FOR LARGE-SCALE NONLINEAR COMPUTATIONS EASTERN ILLINOIS UNIVERSITY	SURHIT	N 12 30/03/89 \$97,703	NACHMAN 89-NM-429	
ARTIFICIAL INTELLIGENCE METHODOLOGIES IN FLIGHT RELATED DIFFERENTIAL GAME, CONTROL AND OPTIMIZATION PROBLEMS WASHINGTON UNIVERSITY	ERVIN	N 36 30/03/89 \$748,595	NACHMAN 89-NM-430	
STOCHASTIC WEAR PROCESSES: MODELING, ESTIMATION, AND CONTROL UNIV OF KENTUCKY RESEARCH FOUNDATION	RAYMOND	N 36 30/03/89 \$617,698	NACHMAN 89-NM-431	
THE FUNDAMENTAL MAGNETIC ANISOTROPY MICHIGAN TECHNOLOGICAL UNIVERSITY	VIEGELAHN	N 36 30/03/89 \$320,329	NACHMAN 89-NM-432	
MAGNETOSTATIC DEFORMATION: THE MAGNETOSTATIC BENDING OF PLATES MICHIGAN TECHNOLOGICAL UNIVERSITY	GARY	N 36 30/03/89 \$265,546	NACHMAN 89-NM-433	

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MATHEMATICAL MODELING OF DISCONTINUOUS PHENOMENA BY GRADIENT SPACE METHODS UNIV OF TEXAS	KENNON	N 24 30/03/89 \$182,449	NACHMAN 89-NM-434	
APPROXIMATIONS AND INEQUALITIES IN RADAR DETECTION AND RELIABILITY THEORY UNIV OF CONNECTICUT	GLAZ	N 24 30/03/89 \$104,622	NACHMAN 89-NM-435	
STATISTICAL INFERENCE: RELIABILITY, NONLINEAR PREDICTION, AND SIGNAL PROCESSING UNIV OF CALIFORNIA	ROUSSAS	N 36 30/03/89 \$498,395	NACHMAN 89-NP-436	
EVALUATION OF TRANSPORT PROPERTIES OF DIATOMIC GASES USING THE INFINITE ORDER SUDDEN APPROXIMATION UNIV OF ALABAMA	TOGHIANI	N 36 31/03/89 \$178,177	NACHMAN 89-NP-437	
MICROPHYSICAL, ELECTROMAGNETIC AND OBSERVATIONAL MODELLING OF CONVECTIVE STORMS UNIV OF ALABAMA	CHANDRASEKAR	N 36 31/03/89 \$187,105	NACHMAN 89-NM-438	
INSTABILITY OF CYLINDRICAL SHELLS SUBJECTED TO NONUNIFORM EXTERNAL PRESSURE UNIV OF NORTH DAKOTA	JERATH	N 36 31/03/89 \$182,802	NACHMAN 89-NM-439	
THREE-DIMENSIONAL MULTISTATIC ECHO IMAGING IN REMOTE SENSING AND NON-DESTRUCTIVE TESTING STATE UNIVERSITY OF NEW YORK	SOUPEKH	N 36 31/03/89 \$270,311	NACHMAN 89-NP-440	
THEORY OF RANDOM MATRICES IN OPTICAL TRANSMISSION AND HIGH TEMPERATURE MATERIALS CASE WESTERN RESERVE UNIVERSITY	WOCZYNSKI	N 36 31/03/89 \$301,974	NACHMAN 89-NP-441	
MATHEMATICAL ANALYSIS OF THREE FREE-ELECTRON-LASER ISSUES JACKSON STATE UNIVERSITY	JOHNSTON	N 36 31/03/89 \$363,026	NACHMAN 89-NP-442	

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THEORY AND APPLICATIONS OF GENERALIZED ADDITIVE MODELS GEORGE WASHINGTON UNIVERSITY	THALL	N 36 21/03/89 \$340,599	NACHMAN 89-NM-443	
VALIDATING SOFTWARE FOR DISTRIBUTED SYSTEMS UNIV OF TEXAS	VENKATESAN	N 36 21/03/89 \$53,184	NACHMAN 89-NM-444	
ADAPTIVE CONTROL OF DISTRIBUTED COMPUTING SYSTEMS FOR PERFORMANCE OPTIMIZATION UNIV OF TEXAS	DATTATREYA G	N 12 31/03/89 \$52,393	NACHMAN 89-NM-445	
USUALITY ALGEBRA AND ITS APPLICATION TO EXPERT SYSTEMS FOR SPACE OBJECT SURVEILLANCE AND IDENTIFICATION UNIV OF MIAMI	LEE EDWARD	N 36 31/03/89 \$292,693	NACHMAN 89-NM-446	
AUTOMATIC MODULATION RECOGNITION OF DIGITALLY MODULATED SIGNALS SOUTHERN METHODIST UNIVERSITY	SOLIPAN SAMIR	N 36 31/03/89 \$171,946	NACHMAN 89-NM-447	
MODELS OF ORCUCUTION LINES WITH FLEXIBLE WORKSTATIONS UNIV OF MISSOURI	VENTURA JOSE	N 24 31/03/89 \$353,740	NACHMAN 89-NM-448	
PARALLEL COMPUTATION OF STRUCTURAL OPTIMIZATION UNIV OF MISSOURI	EL-SAYED MOHAMED	N 36 31/03/89 \$188,389	NACHMAN 89-NM-449	
FEEDBACK CONTROL OF UNSTEADY FLOW SEPARATION OVER LIFTING SURFACES ILLINOIS INSTITUTE OF TECHNOLOGY	C'SOLZA ANTHONY	N 36 31/03/89 \$468,000	NACHMAN 89-NM-450	
CHAOS THEORY AS A TOOL IN NUMERICAL ANALYSIS UNIV OF NOTRE DAME	E KINNMARK INGENAR	N 36 31/03/89 \$288,427	NACHMAN 89-NM-451	

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NETWORK RELIABILITY				
STEVENS INSTITUTE OF TECHNOLOGY	SATTANARAYANA A	N 36 31/03/89 \$501,971	NACHMAN 89-NM-452	
CONTROL OF NONLINEAR DISTRIBUTED PARAMETER SYSTEMS				
CITY COLLEGE - CUNY	TSILIGIANIS CHRISTOS	N 36 31/03/89 \$275,925	NACHMAN 89-NM-453	
RESEARCH INITIATIVE IN THE MATHEMATICAL ASPECTS OF SCIENTIFIC COMPUTATION				
UNIV OF CHICAGO	CUPONT TODD	N 36 31/03/89 \$628,324	NACHMAN 89-NM-454	
COMPLEXITY ANALYSIS AND ALGORITHMS FOR MULTICRITERIA SCHEDULING PROBLEMS FOR SINGLE AND PARALLEL PROCESSORS				
MISSISSIPPI STATE UNIVERSITY	CHEN CHUEN-LUNG	N 24 31/03/89 \$111,881	NACHMAN 89-NM-455	
DISCRETE APPLIED MATHEMATICS				
RUTGERS - THE STATE UNIVERSITY	ROBERTS FRED	N 36 31/03/89 \$745,996	NACHMAN 89-NM-456	
ON THE NON-DESTRUCTIVE EVALUATION OF DAMAGE-AN INVERSE APPROACH				
ARIZONA STATE UNIVERSITY	KOURIS GEMITRIS	N 35 31/03/89 \$328,271	NACHMAN 89-NM-457	
AN ANALYTICAL AND COMPUTATIONAL APPROACH TO COMPLEX CONTROL SYSTEMS				
GENERAL ANALYTICS CORPORATION	ADOMIAN G.	N 06 03/01/89 \$50,000	NELSON 89-NM-167	
DEVELOPMENT OF ADVANCED FINITE ELEMENTS FOR STRUCTURAL ANALYSIS				
CSA ENGINEERING, INC.	GIBSON WARREN	N 06 04/01/89 \$50,000	NELSON 89-NM-176	
SUBJECTIVE COMPUTATIONAL PROCEDURES FOR CONTINUUM CALCULATIONS				
WEIDLINGER ASSOCIATES	SANDLER IVAN	N 06 06/01/89 \$45,938	NELSON 89-NM-196	

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A NEW PARALLEL ALGORITHM FOR COMPUTATIONAL FLUID DYNAMICS				
MISSION RESEARCH	CAMPBELL	N 06 06/01/89 \$52,033	NELSON 89-NP-198	
LATTICE GAS AUTOMATA FOR MODELING LARGE NONLINEAR SYSTEMS				
PHYSICAL DYNAMIC INC	MASSLACHER	N 06 09/01/89 \$49,926	NELSON 89-NM-192	
INNOVATIVE STORAGE TECHNIQUES FOR FINITE ELEMENT METHODS				
PAINSTREAM ENGINEERING CORPORATION	BUCKMAN	N 06 09/01/89 \$49,929	NELSON 89-NM-194	
INTERACTIVE GRID GENERATION ON SMALL COMPUTERS				
PROGRAM DEV. CORP. OR SCARSDALE, INC	EISEMAN	N 06 13/01/89 \$75,000	A NELSON 89-NM-212	\$52,850 01/06/89 \$52,850
DYNAMIC MAPPING OF ALGORITHMS TO MULTIPROCESSORS				
DESIGN, ANALYSIS & SOFTWARE ENG	SALAMA	N 06 17/01/89 \$49,562	NELSON 89-NP-224	
PARALLEL EXTRACTION OF EIGENPAIRS OF SYMMETRIC AND NONSYMMETRIC MATRICES				
DESIGN, ANALYSIS & SOFTWARE ENG	SALAMA	N 06 17/01/89 \$49,957	NELSON 89-NM-225	
ACCELERATION OF ALGORITHMS FOR FLUID-STRUCTURE-THERMAL INTERACTIONS				
PENNSYLVANIA STATE UNIVERSITY	CULIKRAVICH	N 36 02/02/89 \$208,409	NELSON 89-NM-265	
A RAPID METHOD FOR GENERATING AN ACCURATE INITIAL APPROXIMATION FOR THE ITERATIVE SOLUTION OF LINEAR SYSTEMS				
MICRO RESEARCH	EPPS, JR.	N 06 14/02/89 \$49,800	NELSON 89-NM-299	
APPLIED LINEAR ALGEBRA				
AUBURN UNIVERSITY	UHLIG	N 24 21/02/89 \$54,654	NELSON 89-NM-321	

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COMPUTATIONAL METHODS FOR PROBLEMS IN AERODYNAMICS USING PARALLEL AND VECTOR ARCHITECTURES BROWN UNIVERSITY	GOTTLIEB CAVID	N 36 03/03/89 \$612,663	NELSON 89-NM-338	
HIGH PERFORMANCE HYPERCUBE-BASED NETWORK TOPOLOGIES LOUISIANA STATE UNIVERSITY	EL-AHAWY AHMED	N 24 03/03/89 \$109,087	NELSON 89-NM-341	
CALCULATING SHARP SHOCKS WITH SOBOLEV GRADIENTS UNIV OF NORTH TEXAS	NEUBERGER JOHN	N 36 03/03/89 \$165,645	NELSON 89-NM-342	
NEW METHODS FOR NUMERICAL SOLUTION OF ONE CLASS OF STRONGLY NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS WITH APPLICATIONS EMORY UNIVERSITY	OLIKER VLADIMIR	R 24 03/03/89 \$388,032	NELSON 89-NM-343	
PRECONDITIONING TECHNIQUES FOR ADVANCED SCIENTIFIC COMPUTING BROOKHAVEN NATIONAL LABORATORY	PASCIAK JOSEPH	N 36 03/03/89 \$184,463	NELSON 89-NM-347	
PERIOD-MULTIPLYING AND PERIODIC OSCILLATIONS IN SURFACE TENSION DRIVEN FLOWS IN A CYLINDRICAL LIQUID BRIDGE OF A LOW PRANDTL # FLUID STATE UNIVERSITY OF NEW YORK	KAZARINOFF NICHOLAS	N 24 13/03/89 \$70,360	NELSON 89-NM-354	
NUMERICAL METHOD FOR SOLVING WAVE SCATTERING PROBLEMS FOR SMALL BODIES OF ARBITRARY SHAPES KANSAS STATE UNIVERSITY	RAMM ALEXANDER	N 36 15/03/89 \$185,635	NELSON 89-NM-360	
STABILITY ANAL. OF FINITE DIFFERENCE APPROXIMATIONS TO HYPERBOLIC SYSTEMS, & PRECL. IN APPLIED & COMPUTAT. MATRIX & OPERATOR THEORY UNIV OF CALIFORNIA	MARCLS PARVIN	R 12 20/03/89 \$104,213	NELSON 89-NM-372	
DIRECTION IN MATRIX THEORY AUBURN UNIVERSITY	UHLIG FRANK	N 12 20/03/89 \$36,920	NELSON 89-NM-374	

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THE MATHEMATICAL SCIENCES: STATUS AND FUTURE DIRECTIONS NATIONAL ACADEMY OF SCIENCES	COX	N 15 28/03/89 \$300,000	A NELSON 89-NM-375	\$20,000 01/06/89 \$20,000
PARALLEL MATRIX COMPLETIONS UNIV OF MARYLAND	STEWART	N 12 29/03/89 \$104,876	NELSON 89-NM-402	
SELECTIVE EDGE CYCLABILITY OF GRAPHS SOUTHERN ILLINOIS UNIVERSITY	ALDRED	N 12 06/01/89 \$16,955	RANKIN 89-NM-131	
ADJACENCY MATRIX RANK VANDERBILT UNIVERSITY	ELLINGHAM	N 24 06/01/89 \$32,351	RANKIN 89-NP-192	
STOCHASTIC FLOWS ANALYSIS AND ALGORITHMS WITH APPLICATIONS TO SINGLE AND MULTI BASE AIRCREWS STAGING AND MANAGEMENT RUTGERS - THE STATE UNIVERSITY	AVI-ITZHAK	N 24 10/01/89 \$99,456	D RANKIN 89-NP-205	
INTELLIGENT DATA BASE MANAGEMENT SYSTEM KLEIN ASSOCIATES, INC.	KLEIN	N 06 03/01/89 \$61,592	WAKSMAN 89-NM-170	
CONTINUOUS SPEECH RECOGNITION USING A SPECTRAL/PROSODIC SPEECH- BASIS-VECTOR DICTIONARY VISTA RESEARCH CORPORATION	CALDWELL	N 06 03/01/89 \$56,000	WAKSMAN 89-NP-171	
AUTOMATED OPERATIONS FOR THE SUPPORT OF LARGE MILITARY ORGANIZATIONS UNIV OF VIRGINIA	PAPANTONI-KAZAKOS	N 36 03/01/89 \$271,091	D WAKSMAN 89-NM-173	
STRUCTURED NEURAL NETWORK APPROACH TO STATISTICAL ANALYSIS OF COMPLICATED PROBLEMS VISTA RESEARCH CORPORATION	CALDWELL	N 06 04/01/89 \$56,000	WAKSMAN 89-NP-175	

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FAULT TOLERANCE FOR VLSI NETWORKS				
CLD COMMUNION UNIVERSITY	TOIDA	N 12 06/01/89 \$89,960	WAKSMAN 89-NM-194	
DEVELOPMENT OF A SCIENTIFIC COMPUTER LANGUAGE FOR DISTRIBUTED COMPLYING APPLICATIONS				
CREARE INC. RESEARCH & DEVELOPMENT INC	MILLER	N 06 06/01/89 \$49,417	WAKSMAN 89-NM-197	
SOFTWARE REVERSE ENGINEERING				
UNIV OF PENNSYLVANIA	PRYVES	R 12 07/01/89 \$113,992	WAKSMAN 89-NM-189	\$113,992 15/03/89 \$113,992
PRIOR KNOWLEDGE IN IMAGE PROCESSING				
SCIENTIFIC SYSTEMS INC.	SHAM	N 06 12/01/89 \$59,513	WAKSMAN 89-NM-207	
REVERSE ENGINEERING AND REUSING SOFTWARE				
SYSTEM ANALYSIS, DESIGN & ASSESSMENT	NEIGHBORS	N 06 13/01/89 \$48,600	WAKSMAN 89-NM-213	
IMPLEMENTING MASKELL ON RISC ARCHITECTURES				
SCIENTIFIC COMPUTING ASSOCIATES INC	BERNET	N 06 13/01/89 \$56,339	WAKSMAN 89-NP-215	
PERFECT MEMORY				
MARTINGALE RESEARCH CORPORATION	CANES	N 06 17/01/89 \$49,807	WAKSMAN 89-NP-219	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE				
RSC INC	SUMMERS	N 06 17/01/89 \$4,984,857	WAKSMAN 89-NM-220	
OPPORTUNISTIC OR GREEDY KNOWLEDGE-BASED SYSTEMS				
APPLIED COMPUTATIONAL INTELL.	MAZLACK	N 06 17/01/89 \$4,994,000	WAKSMAN 89-NM-222	

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LEARNING COMPUTERS AND MACHINE TRANSLATIONS THE HOUSE OF A. G.	GORALSKI ANTHONY	N 06 17/01/89 \$50,000	WAKSMAN 89-NM-223	
THE FORMAL DEFINITION OF AN INHERENTLY UNAMBIGUOUS DESIGN METHCOLOGY UNIV OF TEXAS	COOKE CAMEL	N 36 18/01/89 \$192,114	WAKSMAN 89-NM-230	
FAULT TOLERANT PARALLEL COMPUTING IN ORTHOGONAL SHARED MEMORY AND RELATED ARCHITECTURES PRINCETON UNIVERSITY	JHA NIRAJ	N 36 24/01/89 \$469,026	WAKSMAN 89-NP-244	
ADAPTIVE REASONING IN CYBERNETIC SYSTEMS USING RULE-BASED EXPERT SYSTEMS WITH FUZZY OBJECTS & RULES CALIFORNIA STATE UNIVERSITY, FULLERTON	CLYMER JOHN	N 36 24/01/89 \$339,855	WAKSMAN 89-NM-245	
A DISTRIBUTIVE LEARNING-DRIVEN ARCHITECTURE WICHITA STATE UNIVERSITY	WOJCIK ZBIGNIEW	N 12 02/02/89 \$63,193	WAKSMAN 89-NP-263	
PARALLEL DISTRIBUTED SEMANTIC NETWORKS FOR NATURAL LANGUAGE PROCESSING UNIV OF CALIFORNIA	DYER MICHAEL	N 36 02/02/89 \$502,658	WAKSMAN 89-NP-264	
EFFICIENT ALGORITHMS, DATA STRUCTURES, AND ARCHITECTURES FOR PARALLEL SEMANTIC DATABASE MANAGEMENT FLORIDA INTERNATIONAL UNIVERSITY	RISHE NAPHTALI	N 36 02/02/89 \$250,475	WAKSMAN 89-NP-266	
FUSION OF MULTIPLE SENSING MODALITIES FOR MACHINE VISION UNIV OF TEXAS	AGGARWAL J.	N 36 02/02/89 \$347,100	WAKSMAN 89-NM-267	
FAULT-TOLERANT DISTRIBUTED SYSTEMS BASED ON BROADCAST COMMUNICATION UNIV OF CALIFORNIA	MELLIER-SMITH F.LLIAR	N 24 06/02/89 \$172,727	WAKSMAN 89-NM-270	

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RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE "FORMAL VERIFICATION OF ORDER AND TIMING PROPERTIES OF ADA PROGRAMS COYSSEY RESEARCH ASSOCIATES	GUASFARI	N 06 08/02/89 \$61,435	WAKSMAN 89-NP-274	
REQUIREMENTS DEFINITION LANGUAGES				
SYSTEMS & SECURITY TECHNOLOGY	KINCAID	N 06 08/02/89 \$50,000	WAKSMAN 89-NM-277	
DYNAMICS CONSTRAINT-NETWORKS				
UNIV OF CALIFORNIA	PEARL	N 12 10/02/89 \$79,585	WAKSMAN 89-NP-281	
FUGER, A NEW APPROACH TO SOLID MODELING FOR CAD/CAM				
TECHNOLOGY INTERNATIONAL, INC	MUSSEINY	N 06 10/02/89 \$45,923	WAKSMAN 89-NM-283	
PROGRAM ANALYSIS FOR OBJECT-CENTERED PROGRAMMING ENVIRONMENTS				
INTELLI CORP INC	FILMAN	N 06 10/02/89 \$50,000	WAKSMAN 89-NP-234	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE				
COYSSEY RESEARCH ASSOCIATES	HOOK	N 06 13/02/89 \$53,147	WAKSMAN 89-NM-290	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: FORMAL MACHINE VISION SYSTEMS				
AMHERST SYSTEMS, INC.	BANDERA	N 06 13/02/89 \$59,980	WAKSMAN 89-NM-291	
A GENERALIZED TOOL FOR GENETIC ALGORITHM RESEARCH				
AUSTIN & FAMILY	AUSTIN	N 06 14/02/89 \$49,800	WAKSMAN 89-NM-293	
AUTOMATED DIAGNOSTIC EQUIPMENT FOR DISTRIBUTED SYSTEMS				
VANCE SYSTEMS, INC.	L.	N 06 14/02/89 \$45,589	WAKSMAN 89-NP-295	

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MODEL-BASED INTELLIGENT CONTROLLER				
MID-SOUTH ENGINEERING	KARSAI	N 06 14/02/89 \$50,000	WAKSMAN 89-NM-296	
FEASIBILITY OF A THREE-DIMENSIONAL VARIATIONAL GEOMETRY SOFTWARE ENGINE BASED ON THE GRAPH TRAVERSAL METHOD	JONAR	N 06 14/02/89 \$50,000	WAKSMAN 89-NP-297	
A NOVEL APPROACH TO DESIGN OF A HIGH SPEED VITERB DECODER				
ACCULINK CORP	ALISOBHANI	N 06 14/02/89 \$50,000	WAKSMAN 89-NM-298	
AN ARTIFICIAL INTELLIGENCE APPROACH TO SOFTWARE RELIABILITY USING DIMENSIONAL ANALYSIS	CSTEEN	N 06 14/02/89 \$48,187	WAKSMAN 89-NP-300	
COMPUTERIZED SPEECH EVALUATION				
SPECOM	CARBY	N 06 14/02/89 \$46,290	WAKSMAN 89-NM-301	
OPTIMAL SYSTEM SYNTHESIZER FOR BOTH FIXED AND ADAPTIVE SYSTEMS				
ANTECH CORP.	HAAS	N 06 15/02/89 \$45,911	WAKSMAN 89-NM-303	
FEASIBILITY TEST OF AN IMAGE PROCESSING SYSTEM FOR ANALYSIS OF PHOTOGRAPHS FOR TERRESTRIAL FEATURES				
LAWSON VIDEOGRAPHIC, INC.	LAWSO	N 06 15/02/89 \$47,660	WAKSMAN 89-NP-308	
ASSURING SOFTWARE SECURITY/RELIABILITY				
COMPLER HUMANWARE INTERNATIONAL	KOERNER	N 06 15/02/89 \$49,954	WAKSMAN 89-NM-310	
KILO-NODE PARALLEL PROCESSOR				
SYRACUSE APPLIED REASONING	SCHLERETH	N 06 15/02/89 \$50,000	WAKSMAN 89-NP-311	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
AN INTELLIGENT EVENT-DRIVEN PROCESS CONTROLLER ARCHITECTURE UNIVERSAL TECHNOLOGY CORP.	MATEJKA RICHARD	N 06 15/02/89 \$49,995	WAKSMAN 89-NM-312	
AN OBJECT ORIENTED TASK PLANNER FOR ROBOT PROGRAMMING CHARLES SYSTEMS CORP	MITCHELL BRIAN	N 06 15/02/89 \$49,566	WAKSMAN 89-NM-313	
FULLY RECONFIGURABLE COPROCESSOR FOR USE IN PARALLEL COMPUTERS THE IMAGINATION WORKS	CASSELMAN STEVEN	N 06 15/02/89 \$50,000	WAKSMAN 89-NM-317	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE PEI RESEARCH	PDGRI JUZER	N 06 15/02/89 \$63,390	WAKSMAN 89-NM-319	
DEDUCTIVE COMPUTER PROGRAMMING STANFORD UNIVERSITY	MANNA ZOHAR	N 36 21/02/89 \$346,389	WAKSMAN 89-NM-323	
DEVELOPMENT OF A SENSORIZED END EFFECTOR FOR COLLISION AVOIDANCE CHARLES SYSTEMS CORP	JACOBUS CHARLES	N 06 28/02/89 \$49,118	WAKSMAN 89-NM-330	
COMBINING ARTIFICIAL INTELLIGENCE AND OBJECT-ORIENTED APPROACHES IN CONTROL SYSTEM DEVELOPMENT GENERAL DIGITAL INDUSTRIES, INC.	STREETER GORDON	N 06 28/02/89 \$48,246	WAKSMAN 89-NM-331	
DISTRIBUTED REAL-TIME OPERATING SYSTEM WITH TASK MIGRATION MOBILE AUTONOMOUS ROBOTIC SYSTEM (MARS),	JURY FAUL	N 06 28/02/89 \$46,000	WAKSMAN 89-NM-332	
EXTENDING A DESIGN "COMPILER" TO THE FEATURE-BASED DOMAIN AUTOMATION RESEARCH	WARD ALLEN	N 06 28/02/89 \$65,000	WAKSMAN 89-NM-333	

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FAST TURNAROUND DIGITAL INSTRUMENTATION				
FEREGINE ENGINEERING	GRIFFIN	N 06 28/02/89 \$57,143	WAKSMAN 89-NP-334	
SUPPORT FOR THE INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE				
CARNEGIE-MELLON UNIVERSITY	SEGALL	N 06 09/03/89 \$10,000	A WAKSMAN 89-NM-352	\$10,000 15/04/89 \$10,000
RETRIEVAL USING PLAUSIBLE INFERENCE				
UNIV OF MASSACHUSETTS	CROFT	N 24 15/03/89 \$199,275	WAKSMAN 89-NM-359	
CASE-BASED REASONING IN ENGINEERING DESIGN A RESEARCH PROPOSAL				
CARNEGIE-MELLON UNIVERSITY	SYCARA	N 36 15/03/89 \$821,653	A WAKSMAN 89-NP-361	\$100,000 01/07/89 \$500,000
MEMORY-BASED EXPERT SYSTEMS				
NORTHWESTERN UNIVERSITY	SCHANK	R 36 15/03/89 \$966,540	A WAKSMAN 89-NP-363	\$54,000 01/06/89 \$651,000
QUERY OPTIMIZATION AND PLANNING IN OBJECT-ORIENTED KNOWLEDGE BASES				
RUTGERS - THE STATE UNIVERSITY (ENGR)	SHEU	N 24 15/03/89 \$88,999	WAKSMAN 89-NP-364	
MODELING THE DESIGN AND EVOLUTION OF SOFTWARE				
KESTREL INSTITUTE	GREEN	R 12 15/03/89 \$169,515	WAKSMAN 89-NP-365	
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES				
NATIONAL ACADEMY OF SCIENCES	BLUMENTHAL	N 18 24/03/89 \$60,000	A WAKSMAN 89-NP-375	\$0 01/07/89 \$50,000
PERCEPTUAL STRUCTURE AND SHAPE FROM TEXTURE				
UNIV OF ILLINOIS	AHUJA	R 24 29/03/89 \$3,474,048	WAKSMAN 89-NM-396	

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EXPLOITING GESTALT LAWS FOR LEARNING APPROACHES IN COMPUTER VISION WICHITA STATE UNIVERSITY	WOJCIK ZBIGNIEW	N 24 29/03/89 \$111,015	WAKSMAN 89-NM-397	
RESEARCH OF PROGRAMMING LANGUAGES AND SOFTWARE ENGINEERING UNIV OF MARYLAND	BASIL VICTOR	R 12 29/03/89 \$217,392	WAKSMAN 89-NM-398	
REPLICA CONTROL ALGORITHMS IN DISTRIBUTED DATABASES GEORGE MASON UNIVERSITY	JAJOZIA SUSHIL	N 36 29/03/89 \$257,880	WAKSMAN 89-NM-399	
MASSIVELY-PARALLEL COMPUTATIONAL FLUID DYNAMICS UNIV OF MICHIGAN	CALAPAN CONALD	N 12 29/03/89 \$74,000	WAKSMAN 89-NM-400	
THE APPLICATION OF TABU SEARCH AND OTHER ARTIFICIAL INTELLIGENCE SEARCHING METHODS TO A CLASS OF SCHEDULING PROBLEMS UNIV OF TEXAS	BARNES J.	N 24 29/03/89 \$115,309	WAKSMAN 89-NM-401	
VIEW-INDEPENDENT REPRESENTATION AND RECOGNITION OF 2-D OBJECTS WAYNE STATE UNIVERSITY	LEU JIA-GUO	N 12 29/03/89 \$44,326	WAKSMAN 89-NM-404	
RESOURCE DISCOVERY IN A MASSIVE DISTRIBUTED ENVIRONMENT: ALGORITHMIC COMPONENTS UNIV OF COLORADO	SCHWARTZ MICHAEL	N 24 29/03/89 \$185,921	WAKSMAN 89-NM-405	
FAST MASSIVE COMPUTATIONS ON DATA SEQUENCES PURDUE UNIVERSITY	ATALLAH MIKHAIL	N 36 29/03/89 \$394,009	WAKSMAN 89-NM-407	
IMAGE RECONSTRUCTION FROM NONUNIFORM SAMPLES ILLINOIS INSTITUTE OF TECHNOLOGY	MARVASTI FAROKH	N 36 17/01/89 \$38,106	D WOODRUFF 89-NM-226	

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INSTITUTION

THE ESTIMATION OF THE POINT OF INCIPENT CETERIORATION AND A CLASS
OF LIFE DISTRIBUTION WITH APPLICATION TO CANNIBALLIZATION
UNIV OF TEXAS

INVESTIGATOR

TYPE/MONTHS
RECEIVED
AMOUNT
N 36
18/01/89
\$52,621

STATUS
PROGRAM MANAGER
PROPOSAL #

A
WOODRUFF
89-MM-231

INITIATE
START DATE
TOT AMT

\$13,408
01/07/89
\$51,650

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MICROWAVE INTERACTION WITH PLASMAS UNIV OF TENNESSEE	ALEXEFF IGOR	N 36 18/01/89 \$233,622	A BARKER 89-NP-042	\$75,309 01/05/89 \$233,622
ELECTROMAGNETIC-WAVE PROPAGATION IN UNMAGNETIZED PLASMAS HUGHES RESEARCH LABORATORIES	SANTCRU JOSEPH	N 24 19/01/89 \$445,850	A BARKER 89-NP-045	\$101,538 01/05/89 \$449,850
STUDY OF PARTICLE TRANSPORT IN PLASMA TURBULENCE TEXAS TECH UNIVERSITY	ISHIHARA OSAMU	R 12 31/01/89 \$27,408	A BARKER 89-NP-066	\$27,408 15/06/89 \$27,408
LIGHTWEIGHT, HIGH POWER, MILLIMETER MICROWAVE SOURCE SCIENCE RESEARCH LABORATORY	BRIX DANIEL	N 12 31/01/89 \$49,945	BARKER 89-NP-070	
INVESTIGATION AND DEVELOPMENT OF THE TIO SCANTRON MISSION RESEARCH	POSTROM MICHAEL	N 12 02/02/89 \$45,990	BARKER 89-NP-075	
LOW COST ELECTRON BEAM DEVICE UNIVERSAL ENERGY SYSTEMS INC	BUCK ERIK	N 12 02/02/89 \$49,925	BARKER 89-NP-076	
HIGH POWER, TUNABLE, MM-WAVE PLASMA-FILLEC DIELECTRIC CHERENKOV MASER IRVINE SCIENCE ASSOCIATES	WESSEL FRANK	N 12 02/02/89 \$49,993	BARKER 89-NP-077	
HIGH POWER, TUNABLE, MM-WAVE PLASMA CHERENKOV MASER IRVINE SCIENCE ASSOCIATES	WESSEL FRANK	N 12 02/02/89 \$45,993	BARKER 89-NP-078	
RELATIVISTIC KLYSTRON DEVELOPMENT MISSION RESEARCH	KIUTTU GERALD	N 12 02/02/89 \$45,477	BARKER 89-NP-079	

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ELECTRON-BEAM-DRIVEN, COMPACT AND HIGH POWER NEAR MILLIMETER WAVE SOURCE: HYBRID ORBITRON WASE AMERICAN RESEARCH CORP OF VIRGINIA	NIIMURA PASSANOBU	N 12 02/02/89 \$49,414	BARKER 89-NP-090	
CINEX (DIPOLE PLASMA MICROWAVE EXPERIMENT)				
MISSION RESEARCH CORP	BRANDENBURG JOHN	N 12 03/02/89 \$148,407	BARKER 89-NP-082	
NOVEL ELECTRON-BEAM-DRIVEN DEVICES FOR THE GENERATION OR APPLICATION OF MILLIMETER-WAVE RADIATION PHYSICAL OPTICS CORPORATION	POK JOHN	N 12 13/02/89 \$49,488	BARKER 89-NP-101	
NOVEL MILLIMETER-WAVE SOURCE BASED ON THE BLT DEVICE INTEGRATED APPLIED PHYSICS (IAP), INC.	KIRKPAN GEORGE	N 12 15/02/89 \$50,000	BARKER 89-NP-111	
NRPC: A NEAR-RELATIVISTIC PLASMA CERENKOV RADIATION SOURCE KRALL ASSOCIATES	KRALL NICHOLAS	N 12 17/02/89 \$49,749	BARKER 89-NP-120	
MICROWAVE PRODUCTION USING A MULTIPACTOR ELECTRON SOURCE GENESIS RESEARCH	OWENS THOMAS	N 12 17/02/89 \$50,000	BARKER 89-NP-121	
LASER DRIVEN PHOTOCATHODE TO GENERATE HIGH INTENSITY PULSED ELECTRON SOURCE AT 1.3 GHz REPETITION RATE EXCEL TECHNOLOGY INC.	RAO RAMA	N 12 17/02/89 \$50,000	BARKER 89-NP-122	
CHARGE CLUSTER GENERATION OF MILLIMETER WAVES ALPHA LAB	LEE WILLIAM	N 12 17/02/89 \$44,299	BARKER 89-NP-123	
GIGATRON - A NOVEL MILLIMETER-WAVE ELECTRON TUBE ACCELERATOR TECHNOLOGY CORP.	ARNOLDITT YOUNG IN	N 12 17/02/89 \$50,000	BARKER 89-NP-127	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MILLIMETER-WAVE GENERATION FROM RIPPLED-FIELD VIRTUAL CATHODE OSCILLATOR/AMPLIFIER EM APPLICATIONS CO.	WOO WEE-YONG	N 12 17/02/89 \$48,229	BARKER 89-NP-128	
A COMPACT, HIGH-POWER SOURCE OF MILLIMETER AND SUBMILLIMETER WAVES PHYSICS & ENGINEERING RESEARCH	AMER AVNER	N 12 17/02/85 \$49,922	BARKER 89-NP-129	
EXPERIMENTAL AND THEORETICAL INVESTIGATION OF RF ABSORPTION AND REFLECTION FROM PREFORMED PLASMAS UNIV OF MARYLAND	DESTLER WILLIAM	N 36 27/02/89 \$355,918	BARKER 89-NP-136	
CIELECTRIC OR PLASMA DIAGNOSTICS USING OPEN-ENDED WAVEGUIDES UNIV OF MISSOURI	MOSTAFAVI MASOUD	N 24 03/03/89 \$65,129	BARKER 89-NP-139	
MICROWAVE INTERACTIONS WITH PLASMAS SRI INTERNATIONAL	ECKSTRON DONALD	N 24 13/03/89 \$299,906	BARKER 89-NP-140	
EXPERIMENTAL AND THEORETICAL STUDIES OF HIGH POWER, PLASMA-FILLED BACKWARD WAVE OSCILLATORS UNIV OF MARYLAND	DESTLER WILLIAM	N 36 13/03/89 \$642,493	BARKER 89-NP-142	
A TWO-STREAM PLASMA ELECTRON MICROWAVE SOURCE FOR HIGH POWER MILLIMETER WAVE GENERATION APPLIED MICROWAVE PLASMA CONCEPTS	GUEST GARETH	N 24 17/03/89 \$495,000	BARKER 89-NP-146	
A JOINT INDUSTRY-UNIVERSITY PROGRAM FOR COMPUTATIONAL PLASMA RESEARCH MISSION RESEARCH CORP	GOPLEN BRUCE	R 36 30/03/89 \$449,979	A BARKER 89-NP-155	\$37,000 01/07/89 \$449,979
EXCITATION OF NUCLEI BY ANTIPROTON ANNIHILATION AT REST PENNSYLVANIA STATE UNIVERSITY	SMITH GERALD	R 24 05/01/89 \$203,609	A KELLEY 89-NP-035	\$32,873 01/05/89 \$33,200

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THEORETICAL STUDY OF ATOMIC PROCESSES LOUISIANA STATE UNIVERSITY	TAYAL SHARAJ	N 36 11/01/89 \$129,113	KELLEY 89-NP-038	
PROPOSAL FOR TRANSITION STATE SPECTROSCOPY AND DYNAMICS OF HALF- COLLISION REACTIVE SCATTERING AEROSPACE CORPORATION	SYAGE JACK	N 48 17/01/89 \$421,342	KELLEY 89-NP-039	
RADIATIVE PROCESSES IN COLLISIONS OF LOW-ENERGY ELECTRONS WITH ATOMIC SYSTEMS UNIV OF CALIFORNIA	GOULC ROBERT	N 24 24/01/89 \$106,989	KELLEY 89-NP-048	
PHOTONIZATION OF EXCITED ATOMIC STATES AND RADIATIVE RECOMBINATI ON CALCULATIONS UNIV OF ILLINOIS	THEODOSICU C.	N 24 27/01/89 \$53,052	KELLEY 89-NP-051	
SUPPORT FOR THE SIXTEENTH INTERNATIONAL CONFERENCE ON THE PHYSICS OF ELECTRONIC AND ATOMIC COLLISIONS CITY COLLEGE - CUNY	LUBELL MICHAEL	N 12 02/02/89 \$13,000	A KELLEY 89-NP-071	\$13,000 01/07/89 \$13,000
HIGH-RESOLUTION LASER SPECTROSCOPY OF DIATOMIC MOLECULES: HALF-COLLISIONS AND RYDBERG STATE STRUCTURE YALE UNIVERSITY	EYLER EDWARD	N 36 02/02/89 \$265,585	KELLEY 89-NP-074	
A LOW COST TRANSPORTABLE RAMAN SPECTROMETER EIC LABORATORIES INC	CARRABBA MICHAEL	N 12 08/02/89 \$59,960	KELLEY 89-NP-092	
MOLECULAR EXCITED STATES IN ELECTRIC FIELDS SRI INTERNATIONAL	KACHRU RAVINDR	N 36 13/02/89 \$362,101	KELLEY 89-NP-102	
HALF COLLISIONS INVOLVING AUTOIONIZING STATES SRI INTERNATIONAL	HICKMAN A. PEET	N 36 15/02/89 \$408,574	KELLEY 89-NP-116	

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CIODE LASER BASED RAMAN LIGHT SCATTERING SPECTROMETER ALSTON INSTRUMENTS	VAN WAGENEN RICHARD	N 12 17/02/89 \$50,000	KELLEY 89-NP-124	
NEUTRAL ATOM INTERFEROMETRY CLAUSER, J.F., & ASSOCIATES	CLAUSERE JOHN	N 12 17/02/89 \$50,000	KELLEY 89-NP-125	
HALF-COLLISIONAL PROCESSES DURING HIGH INTENSITY LASER-MOLECULE INTERACTIONS UNIV CF ROCHESTER	MEYERHOFFER DAVID	N 36 17/02/89 \$376,245	KELLEY 89-NP-131	
AB INITIO WAVE FUNCTIONS FOR ATOMS AND MOLECULES IN INTENSE FIELDS UNIV OF ROCHESTER	EBERLY J.	N 36 17/02/89 \$274,944	KELLEY 89-NP-132	
SUPPORT FOR A CONFERENCE ON ELECTRON-MOLECULE SCATTERING AND PHOTONIZATION YALE UNIVERSITY	HERZENBERG A.	N 22/02/89 \$3,300	KELLEY 89-NP-134	
INTERACTIONS CF POSITRONS AND POSITRONIUM WITH ATOMS LOUISIANA STATE UNIVERSITY	HO YEW KAM	N 36 13/03/89 \$184,373	KELLEY 89-NP-141	
A CANDIDATE SEARCH FOR THE DESIGN OF A NEW, SHORT WAVELENGTH, TUNABLE ATOMIC LASER MICHIGAN TECHNOLOGICAL UNIVERSITY	PERGER WARREN	N 24 16/03/89 \$90,385	KELLEY 89-NP-144	
PROJECTION OPERATOR CALCULATION OF THE WIDTH AND SHIFT OF CHE(-)(2S(2)-1S)J** NASA - GODDARD SPACE FLIGHT CENTER	TEMKIN AARON	N 12 22/03/89 \$25,000	KELLEY 89-NP-147	
FREQUENCY SHIFTS AND WIDTHS IN ATOMIC VAPORS: EXPLOITING THE SELECTIVE REFLECTION TECHNIQUE COLUMBIA UNIVERSITY	MARTYMAN SVEN	N 24 24/03/89 \$204,793	KELLEY 89-NP-149	

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IONIZATION OF ATOMS IN STRONG LASER FIELDS UNIV OF OREGON	CRASEMANA BERNO	N 12 28/03/89 \$139,066	KELLEY 89-NP-151	
ATTOJoule METER POTOMAS SYNERGETIC INC. (PSI)	CORCERAN V.	N 12 10/02/89 \$43,176	PERRIZO 89-NP-095	
REMOTE, HAND-HELD, LASER VIBRATION DETECTOR PHYSICAL RESEARCH, INC.	FITZPATRICK GERALD	N 12 15/02/89 \$49,912	PERRIZO 89-NP-118	
DEVELOPMENT OF MULTI-ENVIRONMENT SCANNING TUNNELING MICROSCOPY FOR USE WITH VACUUM ANALYTICAL TECHNIQUES J. AND D. SCIENTIFIC, INC.	MCCORMICK LARRY	N 12 17/02/89 \$49,905	PERRIZO 89-NP-130	
NUCLEAR AND SPACE RADIATION EFFECTS ON ANALOG AND DIGITAL SUPERCONDUCTING DEVICES AND CIRCUITS ADVANCED PHYSICS APPLICATIONS CO.	CINES EUGENE	N 25 23/02/89 \$2,459,292	PERRIZO 89-NP-135	
AN IMPROVED GALILEAN SEARCH FOR A FIFTH-FORCE CORRECTION TO GRAVITY COLORADO STATE UNIVERSITY	FAIRBANK, JR. WILLIAM	N 36 23/03/89 \$189,005	PERRIZO 89-NP-148	
INFRARED ASTRONOMY XONTECH INC (FORMERLY XONICS INC)	FAY THEODORE	N 12 08/02/89 \$48,763	RADOSKI 89-NP-091	
CHARACTERIZATION OF COSMIC INFRARED VARIABLE SOURCES UNIV OF MINNESOTA	JONES TERRY	N 36 02/03/89 \$324,981	RADOSKI 89-NP-139	
MAGNETO-OPTICAL PROPERTIES IN POLYCRYSTALLINE FERROMAGNETIC OXIDE FILMS OHIO STATE UNIVERSITY	WIGEN PHILLIP	N 36 03/01/89 \$639,091	SCHLOSSER 89-NP-031	

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WORKSHOP ON III-V INTEGRATED OPTOELECTRONICS	NATIONAL SCIENCE FOUNDATION	DAGENAIS (U. MD)	N 12 03/01/89 \$7,500	A SCHLOSSER 89-NP-032	\$7,500 01/03/89 \$7,500
HIGH VOLUME TUNED CAVITY FABRICATION	LEHRER PEARSON INC	PEARSON	N 06 04/01/89 \$35,910	SCHLOSSER 89-NP-033	
THE NINTH INTERNATIONAL CONFERENCE ON VACUUM ULTRAVIOLET RADIATION PHYSICS (VUV9) UNIV OF HAWAII	FADLEY	CHARLES	N 12 06/01/89 \$10,000	A SCHLOSSER 89-NP-036	\$10,000 01/04/89 \$10,000
VISIBLE AND NEAR ULTRA-VIOLET SPECTRA OF SPECIALLY DEPED OPTICAL FIBERS BROWN UNIVERSITY	MORSE	T.	N 12 11/01/89 \$32,000	SCHLOSSER 89-NP-037	
ULTRAFAST X-RAY SOURCES UNIV OF CALIFORNIA	FALCONE	ROGER	N 36 18/01/89 \$652,191	A SCHLOSSER 89-NP-040	\$324,148 01/07/89 \$652,895
STUDY OF VUV AND XUV LASER SPECTROSCOPY UNIV OF ILLINOIS	EDEN	J.	N 12 18/01/89 \$36,000	SCHLOSSER 89-NP-041	
AN ELECTRON BEAM SOURCE FOR NOVEL GENERATORS OF ELECTROMAGNETIC RADIATION NORTH CAROLINA CENTRAL UNIVERSITY	JONES	C.	N 36 18/01/89 \$600,000	A SCHLOSSER 89-NP-043	\$200,000 15/05/89 \$500,000
LASER-SEMICONDUCTOR INTERACTIONS UNIV OF NEW MEXICO	BRUECK	S	R 36 23/01/89 \$468,095	A SCHLOSSER 89-NP-046	\$375,095 15/04/89 \$468,095
DISTRIBUTED NONLINEAR DEVICES FOR MILLIMETER-WAVE AND PICOSECOND-P ULSE GENERATION UNIV OF CALIFORNIA	RODWELL	MARK	N 36 25/01/89 \$378,604	A SCHLOSSER 89-NP-049	\$192,000 01/05/89 \$378,604

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RESEARCH ON FUNDAMENTAL ASPECTS OF DIAMOND CHEMICAL VAPORE	BUTLER	N 36 27/01/89 \$342,506	SCHLOSSBER 89-NP-050	
MEASUREMENT OF ULTRASHORT PULSES OF LIGHT TO INVESTIGATE POSSIBLE SPACE-TIME QUANTIZATION DEPT OF ENERGY OFFICE OF ENERGY RESEARCH	GOODWIN	N 12 27/01/89 \$90,790	D SCHLOSSBER 89-NP-052	
KINETIC PROCESSES IN BLUE-GREEN MERCURY HALIDE LASERS	SPENCER	N 36 27/01/89 \$342,506	SCHLOSSBER 89-NP-053	
ADVANCED LASER-CHEMICAL PROCESSING FOR MICROELECTRONICS AND INTEGRATED OPTICS COLUMBIA UNIVERSITY	OSGODD	R 36 30/01/89 \$1,455,000	A SCHLOSSBER 89-NP-054	\$57,100 15/06/89 \$1,454,920
ENERGY SELECTIVE DIGITAL RADIOGRAPHY OF FCCSILLS CORNELL UNIVERSITY	CISNE	N 24 30/01/89 \$174,098	C SCHLOSSBER 89-NP-055	
SPECTROSCOPIC CHARACTERIZATION OF THE OPTICAL & LASING PROPERTIES OF GROUP I-III-VI(2), (LI,NA,K) INSE(2) CRYSTALS NORFOLK STATE COLLEGE	WILLER	N 36 30/01/89 \$314,612	SCHLOSSBER 89-NP-056	
DEVELOPMENT OF A MODE-LOCKED TI:SAPPHIRE LASER SCHWARTZ ELECTRO-OPTICS INC.	WELFCRO	N 06 31/01/89 \$49,471	A SCHLOSSBER 89-NP-067	\$49,471 01/07/89 \$49,471
A MICROWAVE NCISE AND S-PARAMETER ANALYZER FOR MMIC PROCESS DIAGNOSTICS METRI WAVE INC.	WILLIAMS	N 12 31/01/89 \$50,000	SCHLOSSBER 89-NP-068	
MAGNETIC BEARING FOR A SCANNING OPTICAL MIRROR ASSEMBLY SATCON TECHNOLOGY CORPORATION	HOCKNEY	N 12 31/01/89 \$45,977	SCHLOSSBER 89-NP-069	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
DIAMOND DEPOSITION RESEARCH		N 08		
NAVAL RESEARCH LABORATORY	BUTLER	03/02/89	SCHLOSSER	\$50,000
	JAMES	\$50,000	89-NP-081	\$50,000
FUTURE DIRECTIONS FOR LASERS IN MEDICINE AND SURGERY		N 08		
UNITED ENGINEERING TRUSTEES INC	WAYNANT	08/02/89	SCHLOSSER	\$18,762
	RONALD	\$18,762	89-NP-085	\$18,762
FIBER OPTIC LASER VIBRATION SENSOR		N 12		
SUNOL SCIENCES CORP.	STUDY	08/02/89	SCHLOSSER	\$47,571
	P		89-NP-088	
FLASHLAMP-PUMPED DYE LASER AND CHRONCLITE		N 12		
QUANTIC INDUSTRIES, INC.	MCCANIEL	08/02/89	SCHLOSSER	\$39,445
	CLIN		89-NP-089	
FLASHLAMP-PUMPED DYE LASER AND CHRONCLITE		N 12		
QUANTIC INDUSTRIES, INC.	MCDANIEL	08/02/89	SCHLOSSER	\$36,935
	CLIN		89-NP-090	
CARRIER DEPENDENCE OF THE OPTICAL CONSTANTS AND THE INTRINSIC ABSORPTION COEFFICIENT IN INGAASP SEMICONDUCTOR DIODE LASERS UNIV OF LOWELL	JENSEN	N 24		
	B.	10/02/89	SCHLOSSER	\$140,701
FUTURE DIRECTIONS FOR LASERS IN MEDICINE AND SURGERY		N 08		
UNITED ENGINEERING TRUSTEES INC	WAYNANT	13/02/89	SCHLOSSER	\$2,738
	RONALD		89-NP-096	\$2,738
AUTOMATED INFRARED ELLIPSOMETRY FOR ACCURATE FILM OPTICAL CONSTANTS		N 12		
J. A. WOOLLAM COMPANY	WOGLLAM	13/02/89	SCHLOSSER	\$50,000
DESIGN OF A PROTOTYPE SOFT X-RAY MACH-ZEHNDER INTERFEROMETER		N 12		
MULTILAYER OPTICS & X-RAY TECHNOLOGY INC	PETERSON	13/02/89	SCHLOSSER	\$50,000
	RYAN		89-NP-098	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ELECTRON-BEAM-ADDRESSED TERNARY-STATE LIQUID CRYSTAL SPATIAL LIGHT MODULATOR CAPTRON SYSTEMS, INC	TSAKIRIS TODD	N 12 13/02/89 \$55,980	SCHLOSSER 89-NP-100	
FUTURE DIRECTIONS FOR LASERS IN MEDICINE AND SURGERY CONFERENCE FOOD AND DRUG ADMINISTRATION	LAMORY ROBERT	N 08 13/02/89 \$4,000	A SCHLOSSER 89-NP-103	\$4,000 01/02/89 \$4,000
REAL TIME OPTICAL CIRCLE DETECTION BLZ CORP.	ZHANG YOU-WEN	N 12 15/02/89 \$50,000	SCHLOSSER 89-NP-112	
3-DIMENSIONAL FULL COLOR VOLUMETRIC IMAGING DISPLAY INSTRUMENT RESEARCH CO.	WITHEY EDWARD	N 12 15/02/89 \$49,275	SCHLOSSER 89-NP-113	
A PNEUMATICALLY-CONTROLLED OPTICAL INTERFEROMETER SCE CORP.	EWING GALEN	N 12 15/02/89 \$49,055	SCHLOSSER 89-NP-114	
NOVEL APPROACHES TO DYNAMIC LIGHT SCATTERING (DLS) AND LASER DOPPLER VELOCIMETRY (LDV) CAPTRAC INC.	CARRY BRUCE	N 12 15/02/89 \$49,335	SCHLOSSER 89-NP-115	
THE FREE ELECTRON CYCLOTRON LASER ADVANCED SCIENCE & COMPUTER INNOVATIONS,	MSU JANG-YU	N 12 15/02/89 \$50,000	SCHLOSSER 89-NP-117	
11TH INTERNATIONAL FREE ELECTRON LASER CONFERENCE INST. OF ELECTRICAL & ELEC IONICS ENGRG	ELIAS (U CENTRAL FL)LUIS	N 12 16/02/89 \$25,000	A SCHLOSSER 89-NP-119	\$10,000 01/06/89 \$10,000
SEM X-RAY MICRO-TOMOGRAPHY KACHINA TECHNOLOGIES, INC.	FISHBINE BRIAN	N 12 17/02/89 \$45,944	SCHLOSSER 89-NP-126	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
INFRARED WAVE-MIXING IN DOPED BaTiO3 LOUISIANA STATE UNIVERSITY	TEMPLE COYLE	N 24 22/02/89 \$185,033	D SCHLOSSER 89-NP-133	
A PULSED, HIGH POWER SOLID STATE LASER OPERATING AT MULTIGIGAHERTZ FREQUENCIES ENERGY COMPRESSION RESEARCH CORP.	ZUCKER CYED S.	N 12 14/03/89 \$238,499	SCHLOSSER 89-NP-143	
DEVELOPMENT OF VUV AND XUV FELLS USING A GAS IN THE WIGGLER STANFORD UNIVERSITY	PANTELL RICHARD	N 36 29/03/89 \$749,665	SCHLOSSER 89-NP-153	
ELECTRON IMPACT IONIZATION AND ATTACHMENT STUDIES OF MOLECULES OF INTEREST TO THE PULSE POWER TECHNOLOGY JET PROPULSION LABORATORY	SRIVASTAVA SANTOSH	N 12 05/01/89 \$90,000	A SMITH 89-NP-034	\$90,000 01/12/88 \$90,000
A SEISMIC & INTEGRATED GEOPHYSICAL STUDY OF THE LITHOSPHERE OF THE COLORADO FLATLAND UNIV OF TEXAS	KELLER G.	N 21 18/01/89 \$329,646	A SMITH 89-NP-044	\$89,423 15/05/89 \$233,347
CRUSTAL DEFORMATION MEASUREMENTS IN THE VICINITY OF VANDERBERG AIR FORCE BASE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KING ROBERT	N 12 23/01/89 \$235,000	SMITH 89-NP-047	
INVESTIGATION OF A RELATIVE MOTION MEASUREMENT CONCEPT APPLIED RESEARCH ASSOCIATES INC	FRANK ROBERT	N 12 30/01/89 \$50,362	SMITH 89-NP-057	
NOVEL CLOSED-LOOP TECHNIQUE FOR SEISMIC DETECTION TEXAS RESEARCH INSTITUTE INC	SMITH R.	N 12 30/01/89 \$49,886	SMITH 89-NP-058	
MAGNETIC DEFLECTION OSCILLATOR, A HIGH POWER OUTPUT RF SOURCE TETRA CORPORATION	FLIZCHOD JUAN	N 12 30/01/89 \$55,092	SMITH 89-NP-059	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
VECTR FUNCTIONS FOR DESCRIBING SEISMIC PHENOMENA TROGLDYTE SOCIETY, INC.	COUNCIL FRANCIS	N 12 30/01/89 \$50,000	SMITH 89-NP-060	
SEISMIC SPECTRAL SIGNATURE AT REGIONAL DISTANCES OF SIMULTANEOUS NUCLEAR EVENTS KTECH CORPORATION	GAPFNEY EDWARD	N 12 30/01/89 \$49,895	SMITH 89-NP-061	
FIBER OPTIC SEISMOMETER SYSTEM EDGEWISE SENSOR PRODUCTS	CAROME EDWARD	N 12 30/01/89 \$50,000	SMITH 89-NP-062	
ULTRASENSITIVE FIBER OPTIC SEISMIC SENSOR TACAN CORPORATION	NELSON ARTHUR	N 12 30/01/89 \$49,276	SMITH 89-NP-063	
USE OF NONLINEAR SYSTEM IDENTIFICATION TECHNIQUES FOR IMPROVED SEISMIC DETECTION MULTISPEC CORPORATION	SHEBY CAVIO	N 12 30/01/89 \$49,811	SMITH 89-NP-064	
MULTIVARIATE SIGNAL ANALYSIS NOVEL TECHNIQUES IN SEISMIC DETECTION TOR GEOPHYSICS CORPORATION	KON JOSEPH	N 12 30/01/89 \$49,995	SMITH 89-NP-065	
SOLID STATE SEISMIC SENSOR ANCO ENGINEERS INC	SOLIMEQ THOMAS	N 12 02/02/89 \$49,397	SMITH 89-NP-072	
ULTRA-SENSITIVE TUNNELING PROBE SEISMOMETER PHYSICAL DYNAMIC INC	MACKAY BRUCE	N 12 02/02/89 \$52,867	SMITH 89-NP-073	
CRUSTAL DEFORMATION MEASUREMENTS IN THE VICINITY OF VANDENBER AIR FORCE BASE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KING ROBERT	N 12 06/02/89 \$236,380	A SMITH 89-NP-083	\$236,380 01/06/89 \$236,380

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CUST MOMENTUM FLUX GAGE TECH. REPS., INC.	ETHRIDGE NOEL	N 12 08/02/89 \$49,955	SMITH 89-NP-084	
NEUTRAL NETWORKS AS SEISMIC SIGNAL PROCESSORS STATCON, INC.	MCCOY JOHN	N 12 08/02/89 \$64,830	SMITH 89-NP-086	
A SUPERCONDUCTING GRAVIMETER/SEISMOMETER ALABAMA CRYOGENIC ENGINEERING, INC.	HENDRICKS JOHN	N 12 08/02/89 \$59,990	SMITH 89-NP-087	
THE PHYSICS OF HIGH POWER SEMICONDUCTOR SWITCHES POLYTECHNIC INSTITUTE OF NEW YORK	KUNHARDT ERICH	N 36 08/02/89 \$343,877	SMITH 89-NP-093	
MULTIPLE REFLECTED PULSE ANALYSIS FOR DYNAMIC FRACTURE MONITORING SUNBURST RECOVERY, INC	YOUNG CHAPMAN	N 12 13/02/89 \$49,875	SMITH 89-NP-099	
ELF MAGNETOMETER FOR EARTHQUAKE PREDICTION/ NUCLEAR TEST MONITORING INTEGRITY ELECTRONICS & RESEARCH, INC.	VALONE THOMAS	N 12 15/02/89 \$49,651	SMITH 89-NP-104	
A NEW SEISMOMETER UTILIZING HIGH TEMPERATURE SUPERCONDUCTIVITY SUPERCONDUCTIVE TECHNOLOGIES, INC.	PIKE STEPHEN	N 12 15/02/89 \$48,449	SMITH 89-NP-105	
SEISMIC DETECTORS USING MAGNETIC SUSPENSION VIA HIGH TEMPERATURE SUPERCONDUCTORS PHYSICAL RESEARCH, INC.	FITZPATRICK GERALD	N 12 15/02/89 \$45,924	SMITH 89-NP-106	
LASER DIODE SEISMOMETER CPTRAC INC.	HERCHER MICHAEL	N 12 15/02/89 \$49,964	SMITH 89-NP-107	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TST AMT
SUPERCONDUCTING SEISMOMETERS				
QUANTUM MAGNETICS, INC.	AVRIN	N 12 15/02/89 \$55,436	SMITH 89-NP-108	
NOVEL TECHNIQUES IN SEISMIC DETECTION				
RADIX SYSTEMS, INC.	PULLI	N 12 15/02/89 \$46,874	SMITH 89-NP-109	
LONG RANGE HOLOGRAPHIC SEISMOMETER				
METRECLASER	TROLLINGER	N 12 15/02/89 \$49,950	SMITH 89-NP-110	
DIAGNOSTICS AND MODELLING OF H(-) IONS SOURCES				
NANCY-1 UNIV (FRANCE) LAB DE PHYSIQUE	BACAL	N 28 02/03/89 \$205,000	A SMITH 89-NP-137	\$129,550 01/09/89 \$205,000
INNOVATIVE SCIENCES TECHNICAL EXPERIMENTATION CENTER				
EASTERN SPACE & MISSILE CENTER	KENNEDY	N 07 17/03/89 \$2,080,000	A SMITH 99-NP-145	\$2,080,000 20/05/89 \$2,080,000
INTERNATIONAL COLLABORATION ON NP8 ADVANCED RESEARCH AND DEVELOPMENT				
CEPT OF ENERGY - ALBUQUERQUE OPER OFFICE	HARDEKOPF	N 06 27/03/89 \$300,000	A SMITH 89-NP-150	\$300,000 27/03/89 \$300,000
FORMATION & ENHANCEMENT OF H(-) IONS IN A MAGNETICALLY FILTERED MULTICUSP ION SOURCE/MEASUREMENT OF NEUTRAL ATOMIC/MOLECULAR.....	LEUNG	N 06 29/03/89 \$631,448	A SMITH 89-NP-152	\$66,730 01/04/89 \$66,730
HIGH POWER SWITCHING AND OTHER HIGH POWER DEVICES				
ARMY RESEARCH OFFICE	GUNDERSEN	N 06 30/03/89 \$30,000	A SMITH 89-NP-154	\$30,000 01/04/89 \$30,000